

Data File : VV009010.D
Acq On : 18 Dec 2018 12:33
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00 g/10.0mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02564

Quant Time: Dec 19 06:18:21 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis
QLast Update : Wed Dec 19 03:53:46 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	218082	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	191185	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	87432	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	53411	23.67	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	94.68%
7) Chloroethane-d5	1.58	69	54171	32.49	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	129.96%
10) 1,1-Dichloroethene-d2	2.13	63	128278	22.73	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	90.92%
20) 2-Butanone-d5	3.93	46	40102	48.81	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.62%
24) Chloroform-d	4.40	84	120512	22.99	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	91.96%
26) 1,2-Dichloroethane-d4	5.08	65	66599	23.28	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	93.12%
29) Benzene-d6	5.10	84	238451	22.33	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	89.32%
33) 1,2-Dichloropropane-d6	6.11	67	67140	22.46	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	89.84%
37) Toluene-d8	7.36	98	218698	22.13	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	88.52%
38) trans-1,3-Dichloropropene-	7.66	79	30828	23.47	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	93.88%
39) 2-Hexanone-d5	8.13	63	25150	45.92	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	91.84%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	56500	22.53	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	90.12%
61) 1,2-Dichlorobenzene-d4	11.67	152	68990	21.03	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	84.12%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	74656	20.884 ug/L	98
3) Chloromethane	1.25	50	57081	23.236 ug/L	100
5) Vinyl chloride	1.32	62	62011	22.612 ug/L	98
6) Bromomethane	1.53	94	36845	27.945 ug/L	99
8) Chloroethane	1.59	64	45004	29.301 ug/L	99
9) Trichlorofluoromethane	1.77	101	130919	27.872 ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	72079	22.374 ug/L	98
12) 1,1-Dichloroethene	2.14	96	63517	22.594 ug/L	96
13) Acetone	2.19	43	62714	51.806 ug/L	97
14) Carbon disulfide	2.32	76	204002	22.599 ug/L	98
15) Methyl Acetate	2.46	43	35926	23.404 ug/L	98
16) Methylene chloride	2.53	84	67596	18.407 ug/L	98
17) Methyl tert-butyl Ether	2.80	73	143007	22.391 ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	68274	22.475 ug/L	98
19) 1,1-Dichloroethane	3.23	63	110701	22.480 ug/L	99
21) 2-Butanone	4.01	43	60048	52.924 ug/L	93
22) cis-1,2-Dichloroethene	3.96	96	71862	22.688 ug/L	99

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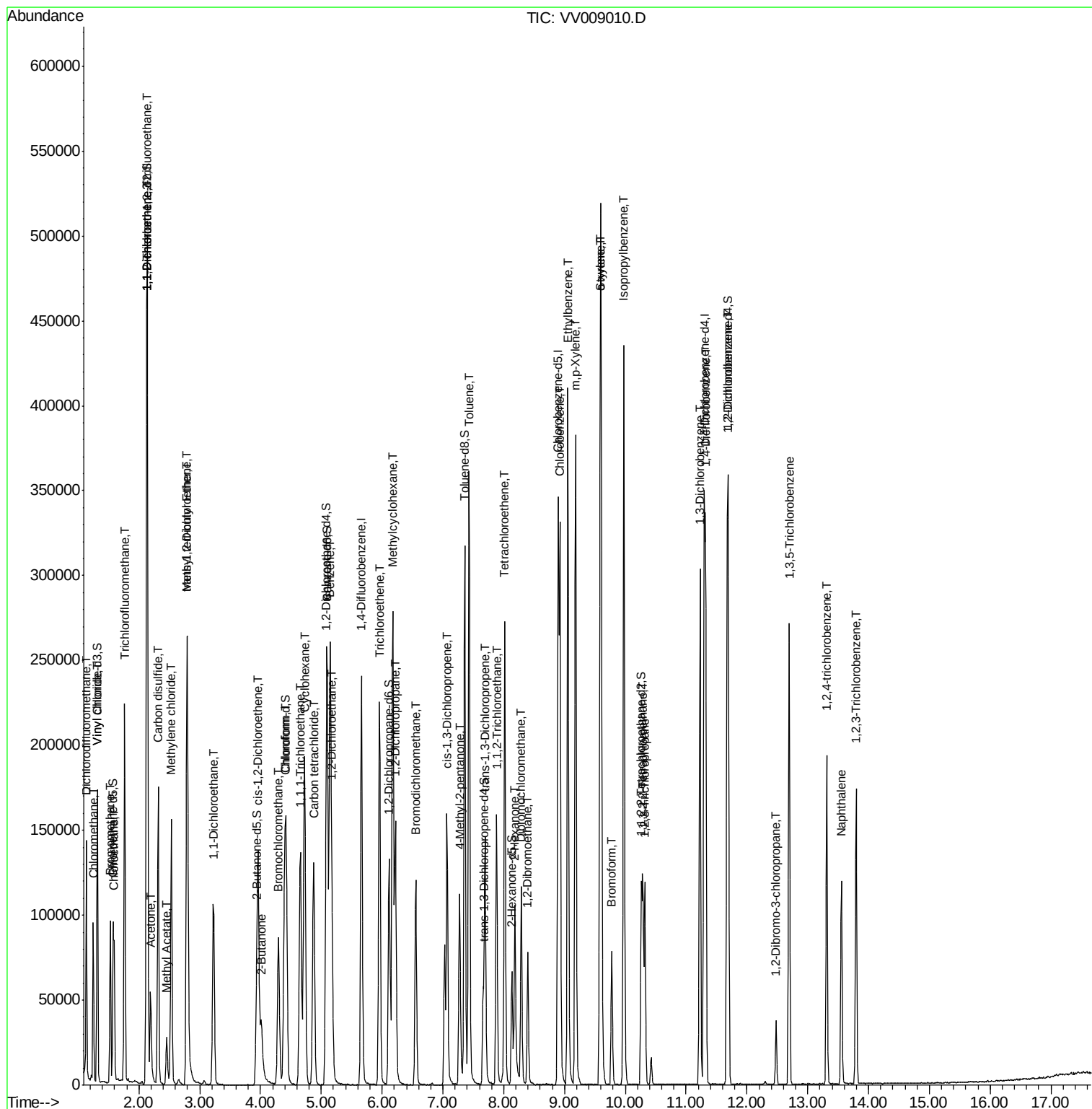
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	33866	22.685	ug/L	98
25) Chloroform	4.42	83	118831	22.485	ug/L	100
27) 1,2-Dichloroethane	5.18	62	79960	22.210	ug/L	99
30) Cyclohexane	4.72	56	107611	22.353	ug/L	100
31) 1,1,1-Trichloroethane	4.66	97	112106	22.743	ug/L	99
32) Carbon tetrachloride	4.87	117	102656	22.812	ug/L	99
34) Benzene	5.14	78	251842	21.986	ug/L	100
35) Trichloroethene	5.96	95	79899	23.137	ug/L	99
36) Methylcyclohexane	6.18	83	122783	22.294	ug/L	99
40) 1,2-Dichloropropane	6.22	63	60515	22.013	ug/L	99
41) Bromodichloromethane	6.55	83	82087	22.655	ug/L	98
42) cis-1,3-Dichloropropene	7.07	75	92005	22.860	ug/L	96
43) 4-Methyl-2-pentanone	7.27	43	81520	43.873	ug/L	100
44) Toluene	7.43	91	270350	22.506	ug/L	100
45) trans-1,3-Dichloropropene	7.69	75	82222	23.435	ug/L	95
46) 1,1,2-Trichloroethane	7.88	97	51881	22.650	ug/L	98
47) Tetrachloroethene	8.02	164	61964	22.064	ug/L	97
49) 2-Hexanone	8.19	43	69465	45.189	ug/L	99
50) Dibromochloromethane	8.29	129	62881	23.949	ug/L	99
51) 1,2-Dibromoethane	8.40	107	52632	22.881	ug/L #	97
52) Chlorobenzene	8.93	112	175122	22.389	ug/L	98
53) Ethylbenzene	9.05	91	292482	22.444	ug/L	99
54) m,p-Xylene	9.18	106	113328	22.967	ug/L	97
55) o-xylene	9.59	106	108184	23.597	ug/L	99
56) Styrene	9.60	104	173297	23.432	ug/L	98
57) Isopropylbenzene	9.98	105	290307	23.298	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	54090	21.843	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	48458	22.616	ug/L	99
62) Bromoform	9.78	173	37861	23.984	ug/L	99
63) 1,3-Dichlorobenzene	11.23	146	125722	22.315	ug/L	97
64) 1,4-Dichlorobenzene	11.32	146	126202	21.768	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	112968	21.751	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	9051	21.270	ug/L	97
67) 1,3,5-Trichlorobenzene	12.69	180	82920	20.377	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	58553	20.536	ug/L	99
69) Naphthalene	13.55	128	96484	19.646	ug/L	100
70) 1,2,3-Trichlorobenzene	13.80	180	53428	20.284	ug/L	99

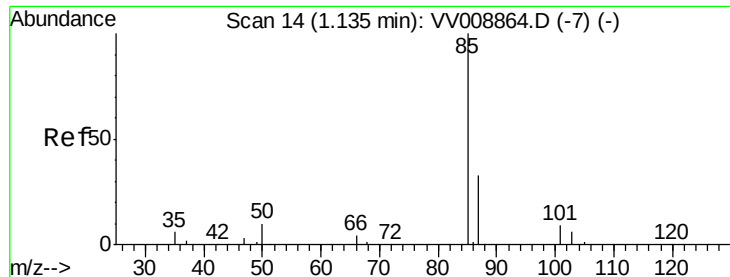
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 20.884 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV009010.D

Acq: 18 Dec 2018 12:33

Instrument :

MSVOA_V

ClientSampleId :

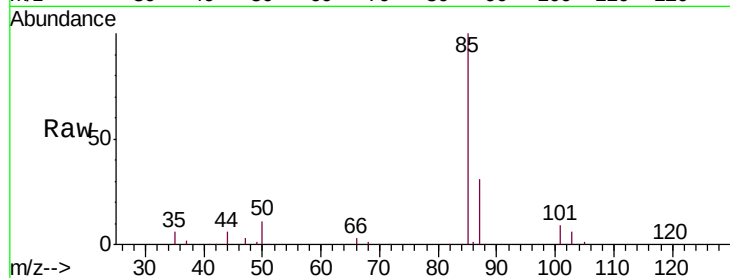
VSTD02564

Tgt Ion: 85 Resp: 74656

Ion Ratio Lower Upper

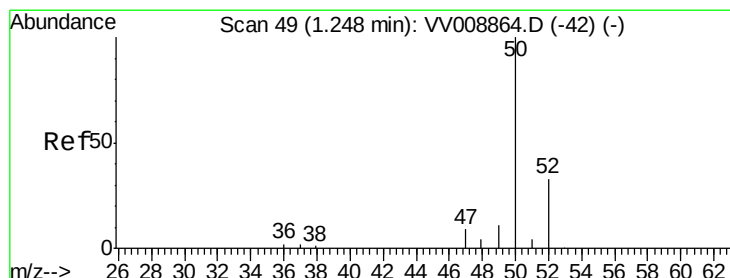
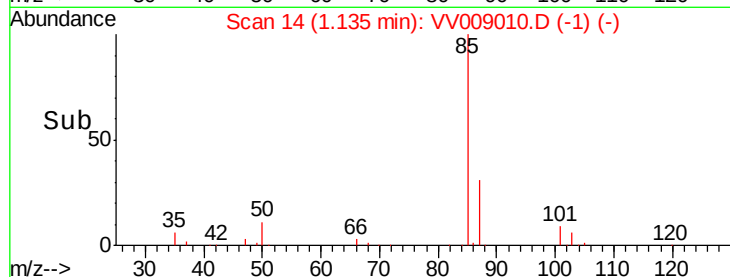
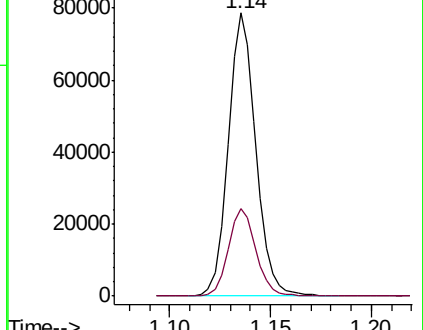
85 100

87 31.1 22.4 41.6



Abundance Ion 85.00 (84.70 to 85.70): VV008864.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV008864.D (-7) (-)



#3

Chloromethane

Concen: 23.236 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV009010.D

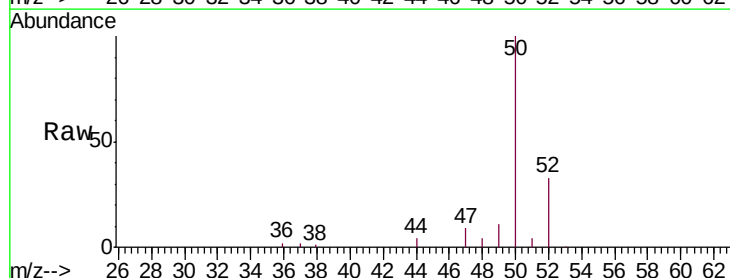
Acq: 18 Dec 2018 12:33

Tgt Ion: 50 Resp: 57081

Ion Ratio Lower Upper

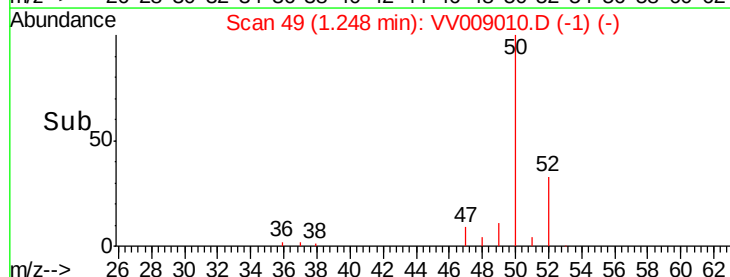
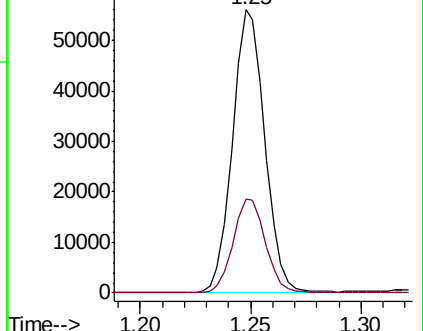
50 100

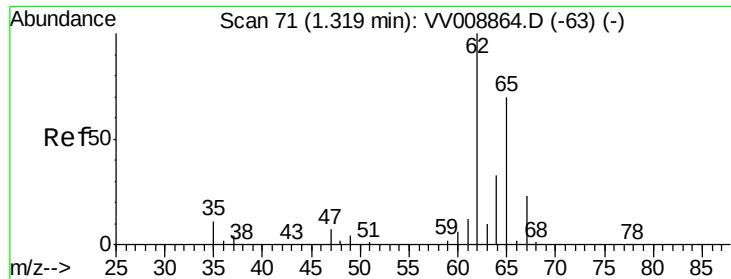
52 33.3 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VV008864.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV008864.D (-42) (-)





#5

Vinyl chloride

Concen: 22.612 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV009010.D

Acq: 18 Dec 2018 12:33

Instrument :

MSVOA_V

ClientSampleId :

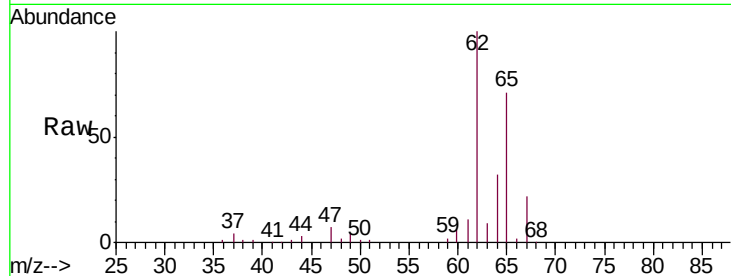
VSTD02564

Tgt Ion: 62 Resp: 62011

Ion Ratio Lower Upper

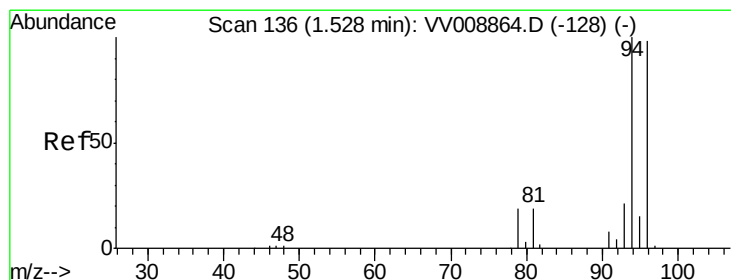
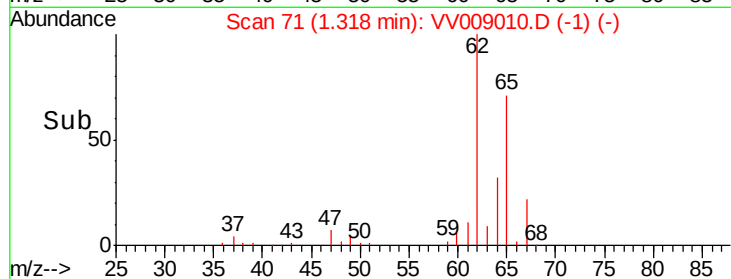
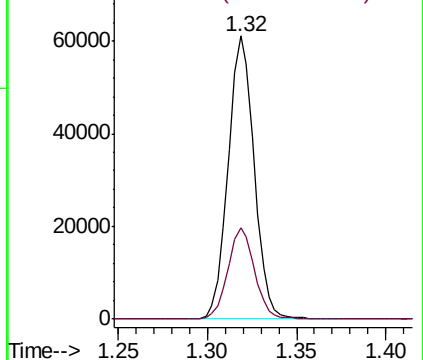
62 100

64 32.4 23.3 43.3



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 27.945 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV009010.D

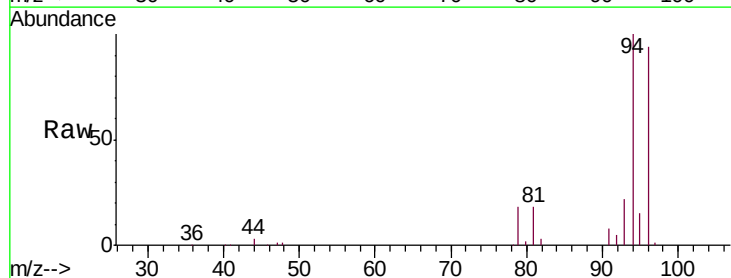
Acq: 18 Dec 2018 12:33

Tgt Ion: 94 Resp: 36845

Ion Ratio Lower Upper

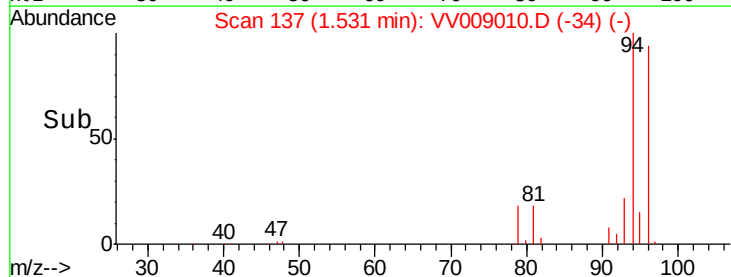
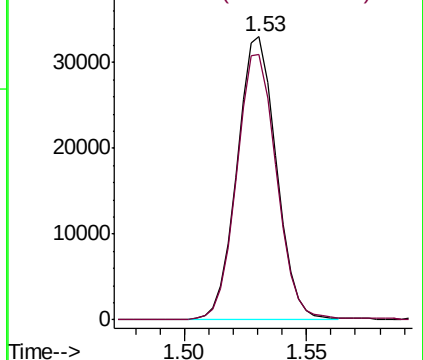
94 100

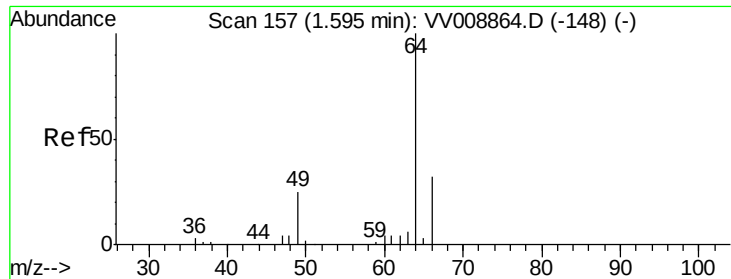
96 95.8 9.5 180.9



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 29.301 ug/L

RT: 1.59 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV009010.D

Acq: 18 Dec 2018 12:33

Instrument :

MSVOA_V

ClientSampleId :

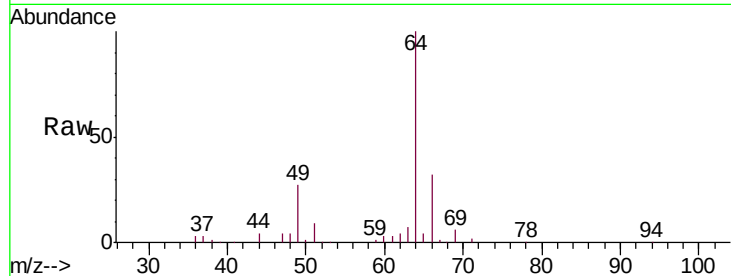
VSTD02564

Tgt Ion: 64 Resp: 45004

Ion Ratio Lower Upper

64 100

66 32.4 22.2 41.2



Abundance Ion 64.00 (63.70 to 64.70): VV008864.D (-148) (-)

Ion 66.00 (65.70 to 66.70): VV008864.D (-148) (-)

1.59

40000

30000

20000

10000

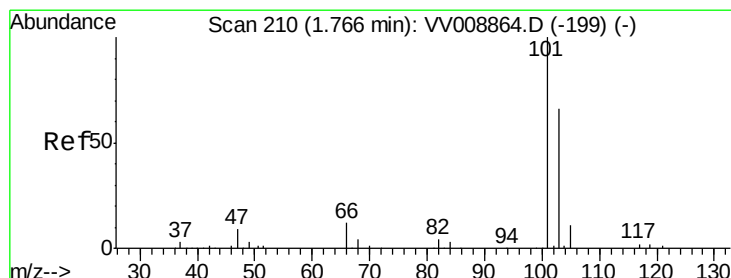
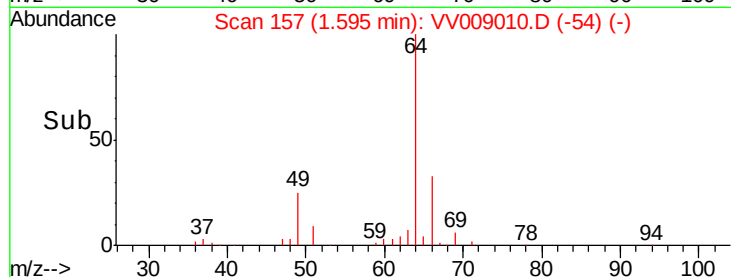
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Time-->

1.55

1.60

1.65



#9

Trichlorofluoromethane

Concen: 27.872 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.00 min

Lab File: VV009010.D

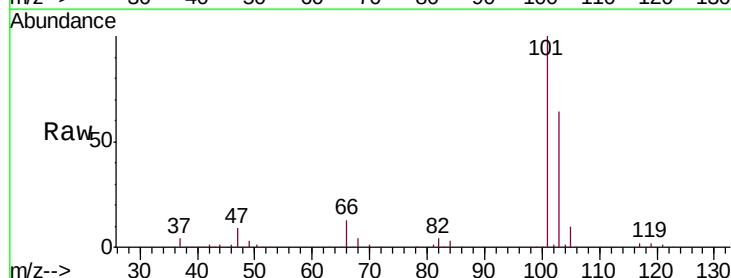
Acq: 18 Dec 2018 12:33

Tgt Ion: 101 Resp: 130919

Ion Ratio Lower Upper

101 100

103 64.0 44.8 83.2



Abundance Ion 101.00 (100.70 to 101.70): VV008864.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV008864.D (-199) (-)

1.77

100000

80000

60000

40000

20000

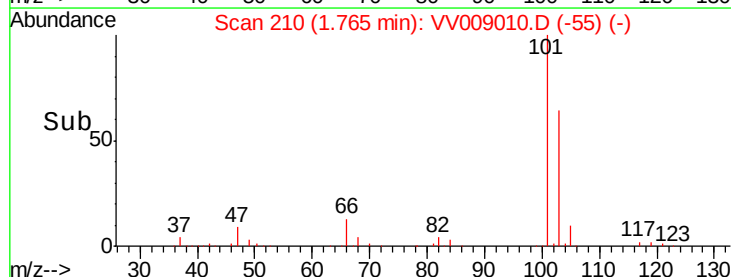
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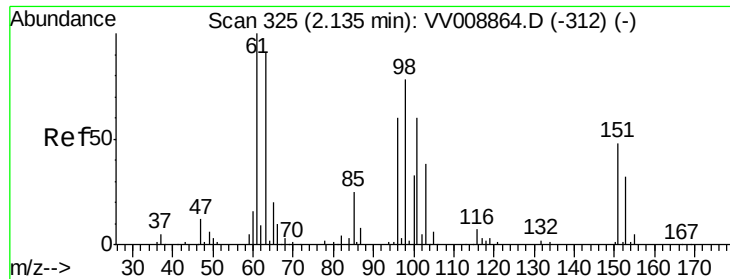
Time-->

1.70

1.75

1.80





#11

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 22.374 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV009010.D

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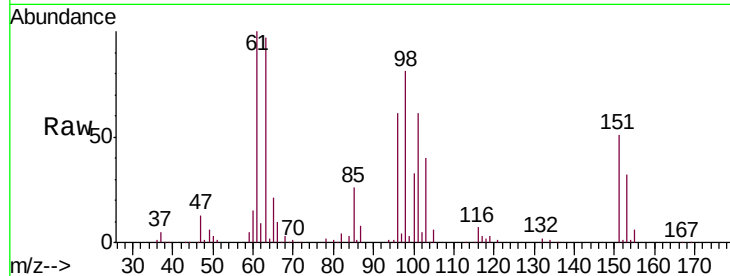
Tgt Ion:101 Resp: 72079

Ion Ratio Lower Upper

101 100

85 42.2 32.5 48.7

151 81.7 64.2 96.4

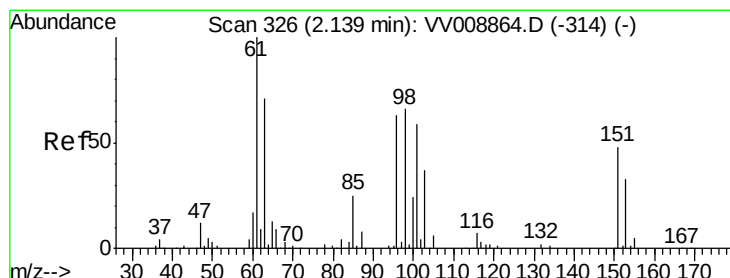
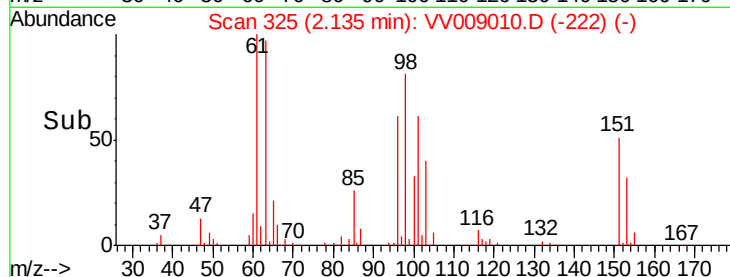
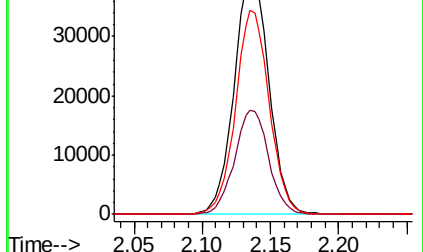


Abundance Ion 101.00 (100.70 to 101.70): VV008864.D (-312) (-)

Ion 85.00 (84.70 to 85.70): VV008864.D (-312) (-)

Ion 151.00 (150.70 to 151.70): VV008864.D (-312) (-)

Time-->



#12

1,1-Dichloroethene

Concen: 22.594 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV009010.D

Acq: 18 Dec 2018 12:33

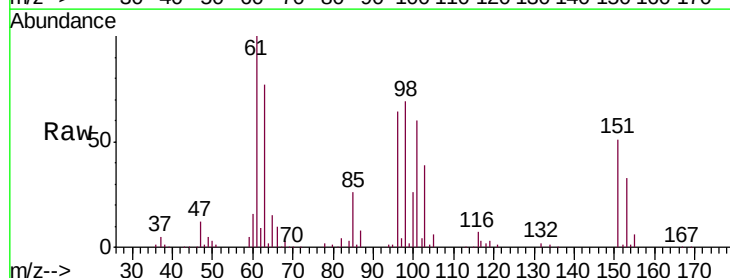
Tgt Ion: 96 Resp: 63517

Ion Ratio Lower Upper

96 100

61 157.2 114.0 211.6

63 121.8 82.4 153.0

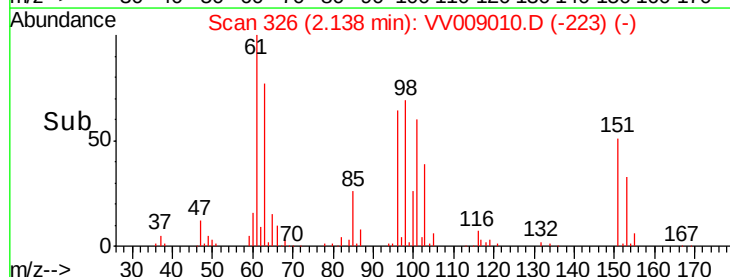
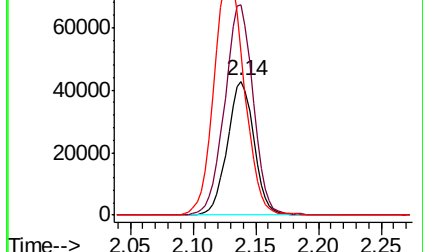


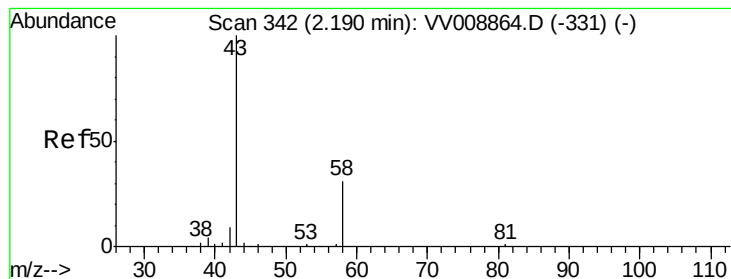
Abundance Ion 96.00 (95.70 to 96.70): VV008864.D (-314) (-)

Ion 61.00 (60.70 to 61.70): VV008864.D (-314) (-)

Ion 63.00 (62.70 to 63.70): VV008864.D (-314) (-)

Time-->





#13

Acetone

Concen: 51.806 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.00 min

Lab File: VV009010.D

Acq: 18 Dec 2018 12:33

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MSVOA_V

ClientSampleId :

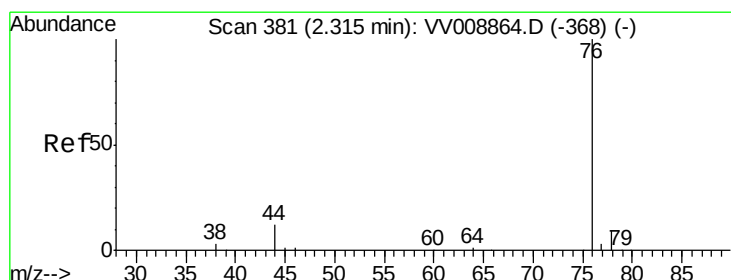
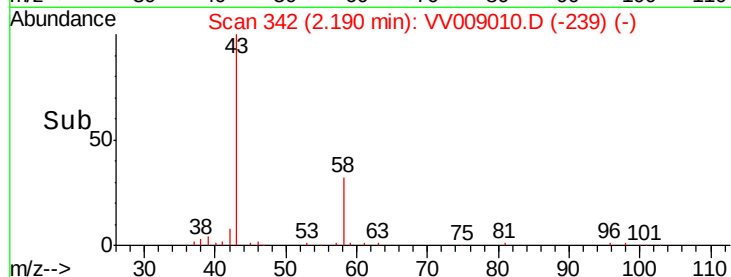
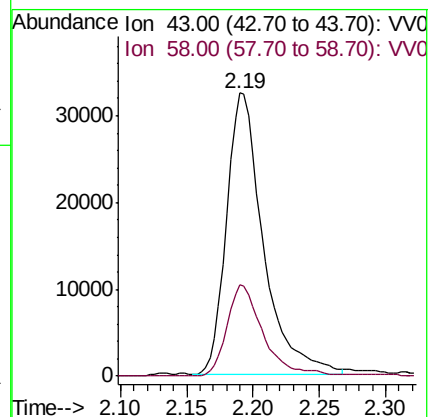
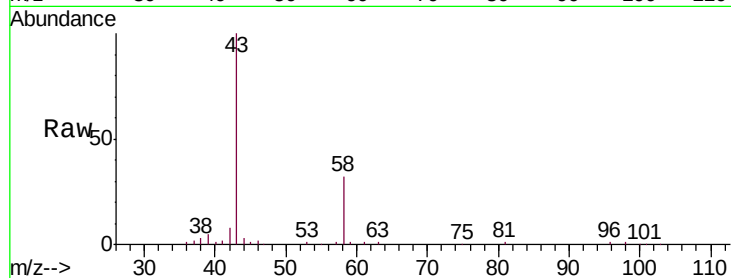
VSTD02564

Tgt Ion: 43 Resp: 62714

Ion Ratio Lower Upper

43 100

58 31.0 0.0 65.4



#14

Carbon disulfide

Concen: 22.599 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV009010.D

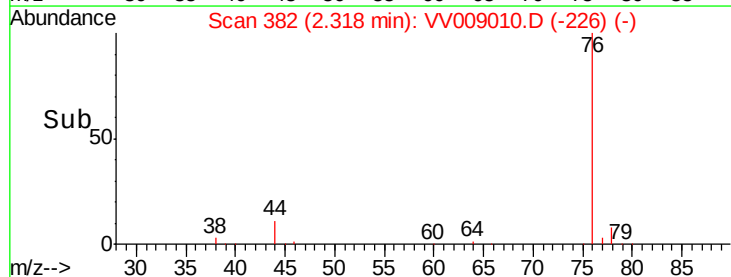
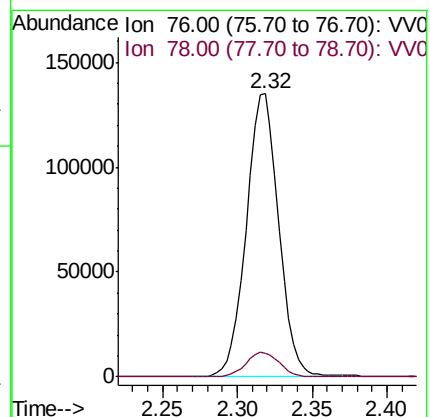
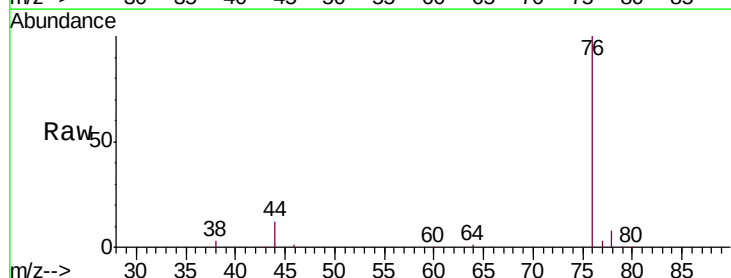
Acq: 18 Dec 2018 12:33

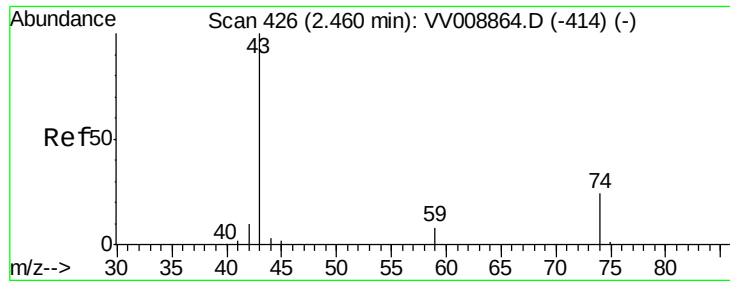
Tgt Ion: 76 Resp: 204002

Ion Ratio Lower Upper

76 100

78 8.5 7.4 11.0

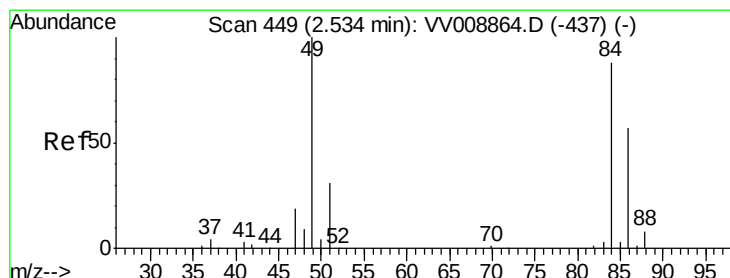
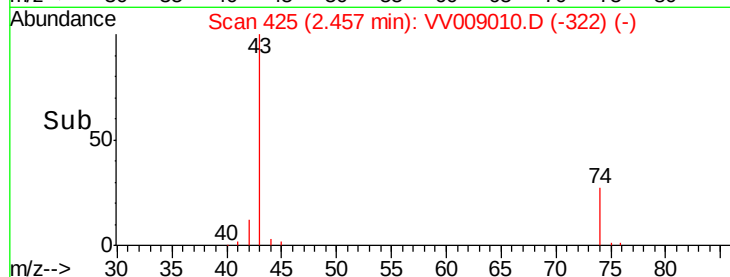
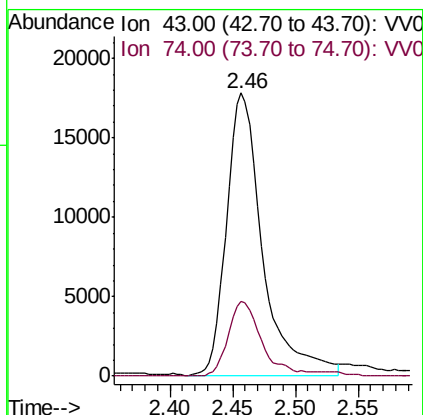
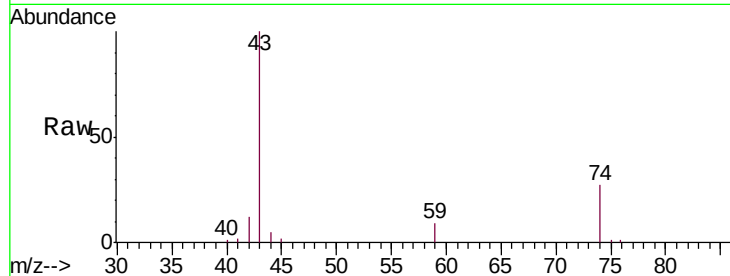




#15
Methyl Acetate
Concen: 23.404 ug/L
RT: 2.46 min Scan# 425
Delta R.T. -0.00 min
Lab File: VV009010.D
Acq: 18 Dec 2018 12:33

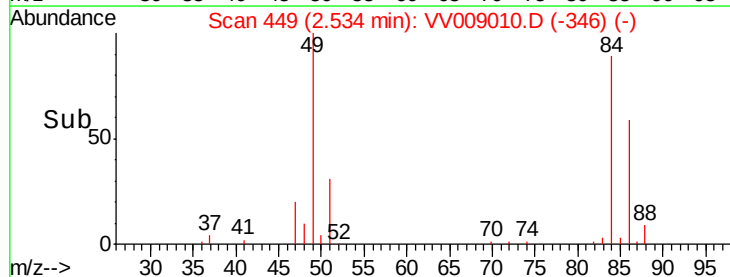
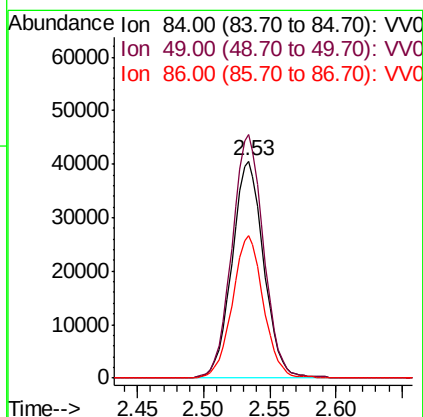
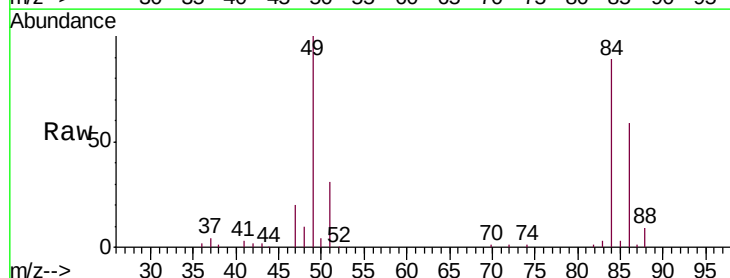
Instrument :
MSVOA_V
ClientSampleId :
VSTD02564

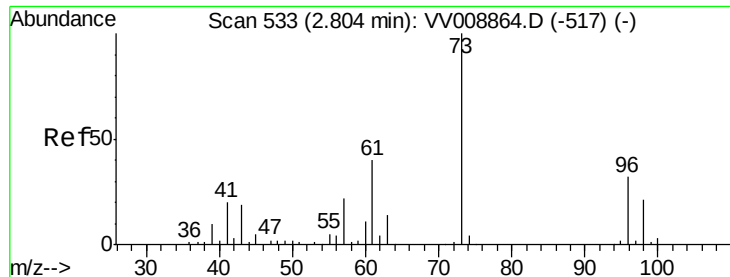
Tgt Ion: 43 Resp: 35926
Ion Ratio Lower Upper
43 100
74 23.7 19.7 29.5



#16
Methylene chloride
Concen: 18.407 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV009010.D
Acq: 18 Dec 2018 12:33

Tgt Ion: 84 Resp: 67596
Ion Ratio Lower Upper
84 100
49 112.2 80.5 149.5
86 65.9 45.5 84.5

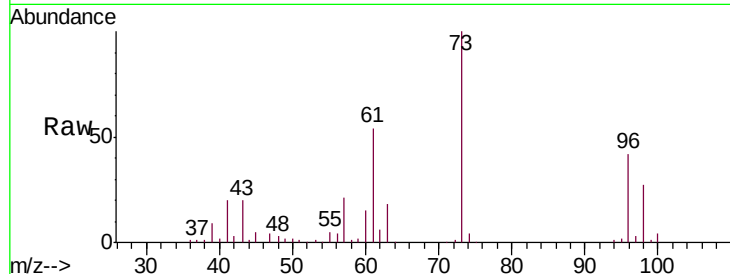




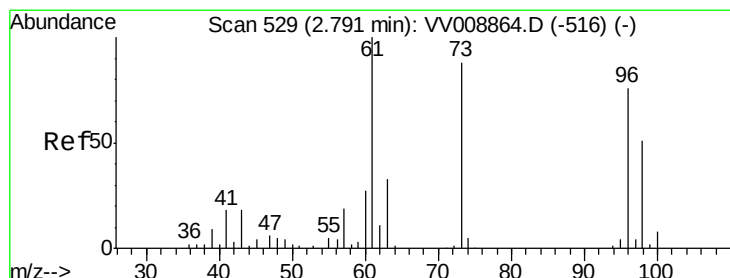
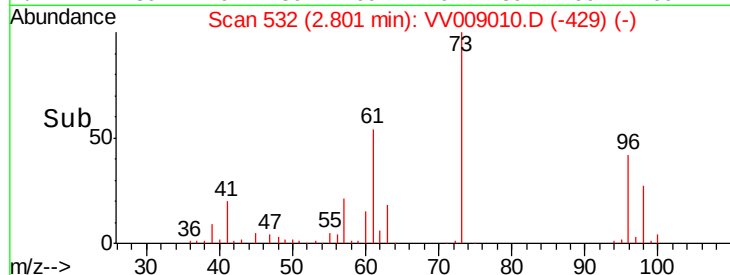
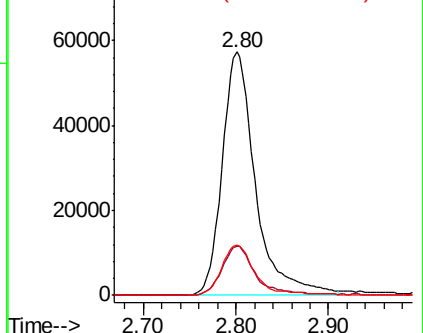
#17
Methyl tert-butyl Ether
Concen: 22.391 ug/L
RT: 2.80 min Scan# 532
Delta R.T. -0.00 min
Lab File: VV009010.D
Acq: 18 Dec 2018 12:33

Instrument :
MSVOA_V
ClientSampleId :
VSTD02564

Tgt Ion: 73 Resp: 143007
Ion Ratio Lower Upper
73 100
43 20.2 14.9 22.3
57 19.5 16.0 24.0

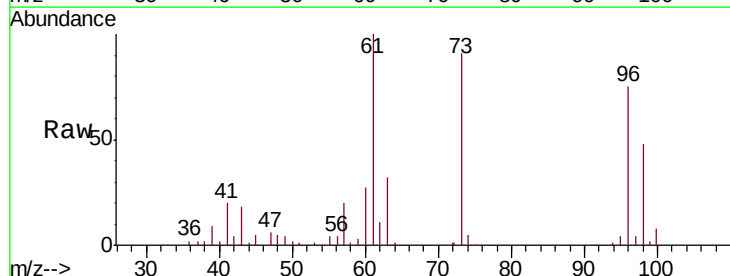


Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0

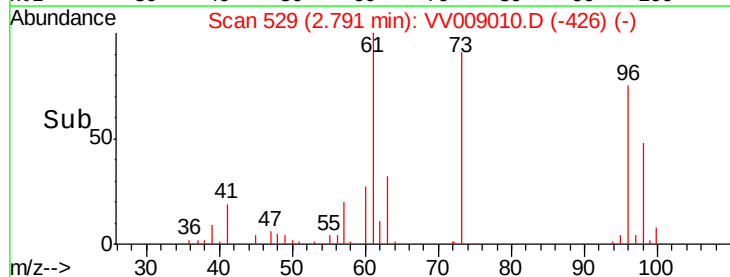
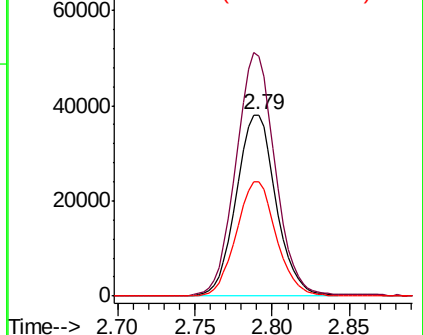


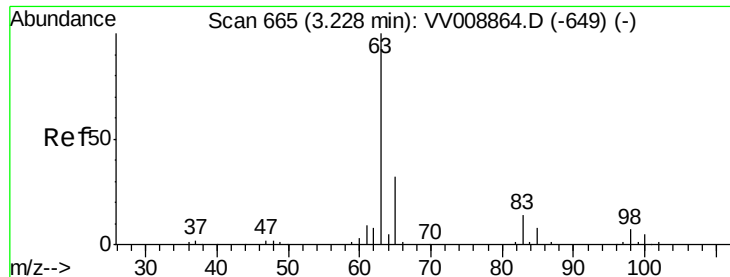
#18
trans-1,2-Dichloroethene
Concen: 22.475 ug/L
RT: 2.79 min Scan# 529
Delta R.T. -0.00 min
Lab File: VV009010.D
Acq: 18 Dec 2018 12:33

Tgt Ion: 96 Resp: 68274
Ion Ratio Lower Upper
96 100
61 132.5 94.6 175.8
98 63.4 45.3 84.1



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

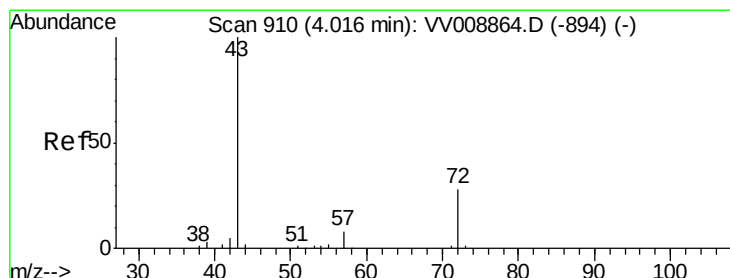
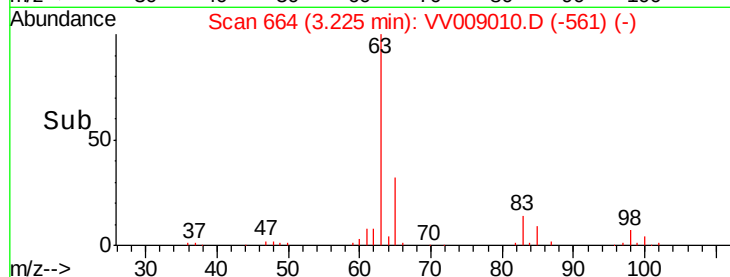
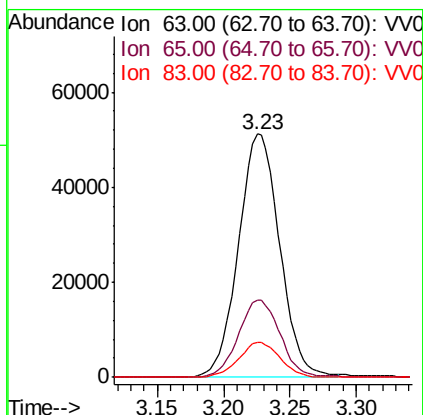
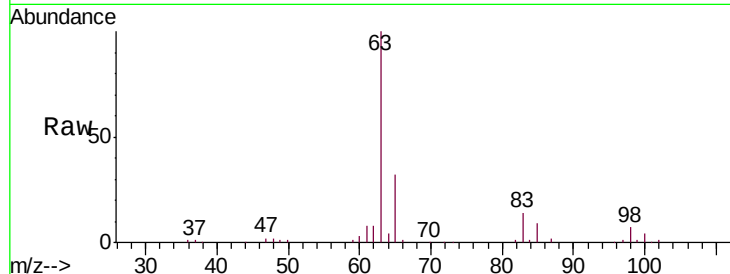




#19
 1,1-Dichloroethane
 Concen: 22.480 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. -0.00 min
 Lab File: VV009010.D
 Acq: 18 Dec 2018 12:33

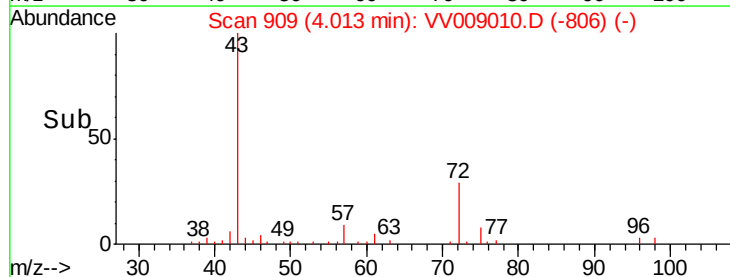
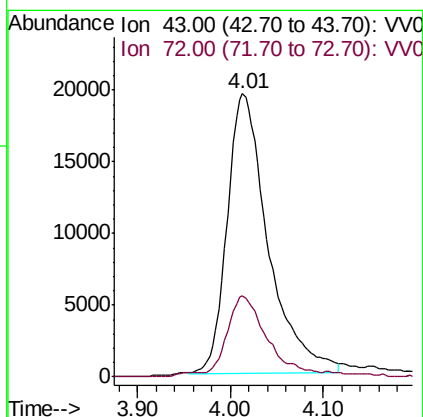
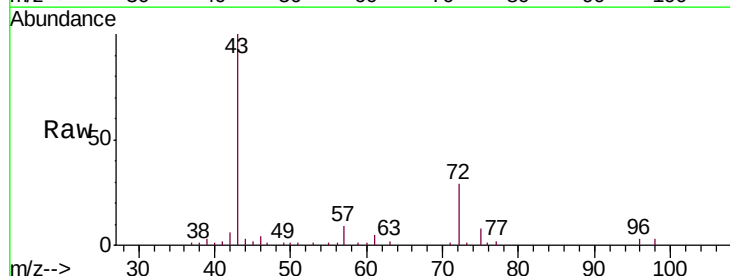
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02564

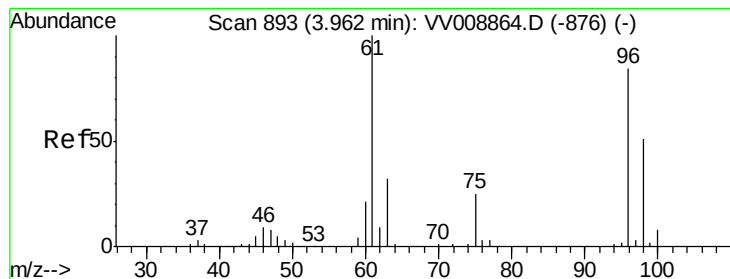
Tgt Ion: 63 Resp: 110701
 Ion Ratio Lower Upper
 63 100
 65 32.0 22.7 42.1
 83 14.5 10.2 19.0



#21
 2-Butanone
 Concen: 52.924 ug/L
 RT: 4.01 min Scan# 909
 Delta R.T. -0.00 min
 Lab File: VV009010.D
 Acq: 18 Dec 2018 12:33

Tgt Ion: 43 Resp: 60048
 Ion Ratio Lower Upper
 43 100
 72 23.6 13.7 41.1



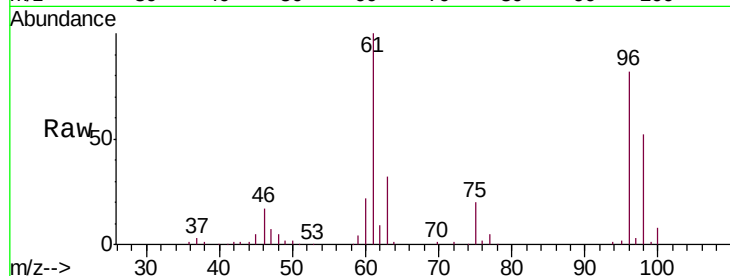


#22

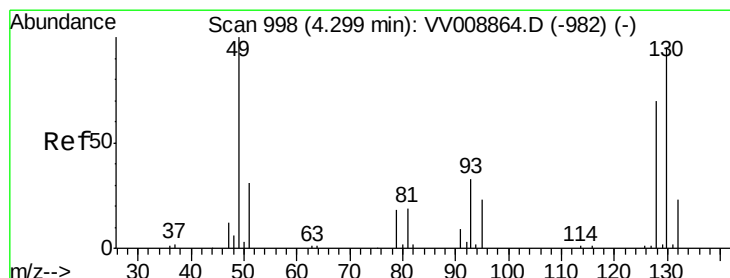
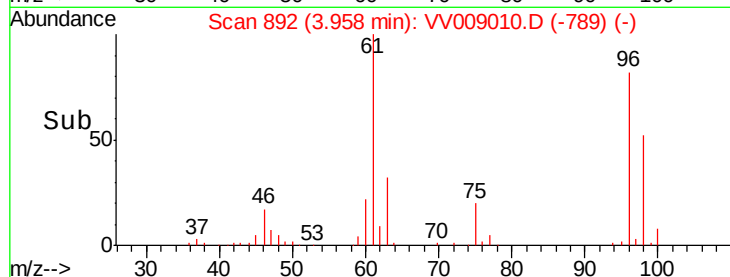
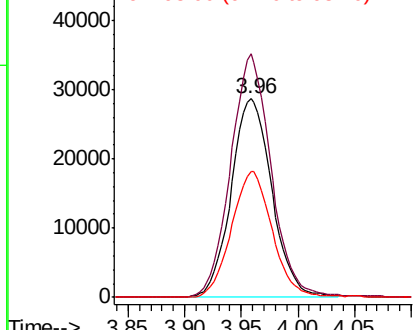
cis-1,2-Dichloroethene
 Concen: 22.688 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. -0.00 min
 Lab File: VV009010.D
 Acq: 18 Dec 2018 12:33

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02564

Tgt Ion: 96 Resp: 71862
 Ion Ratio Lower Upper
 96 100
 61 122.6 86.2 160.0
 98 63.6 45.6 84.6



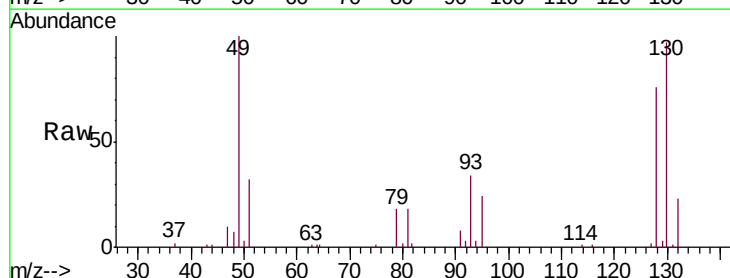
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0



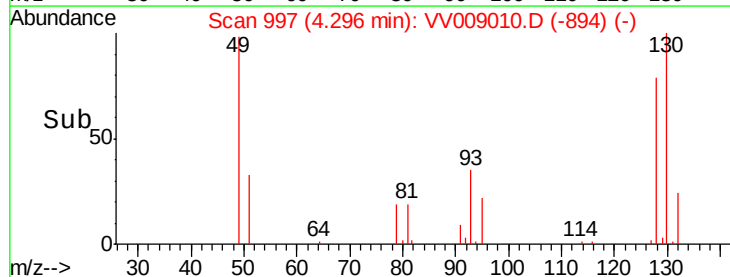
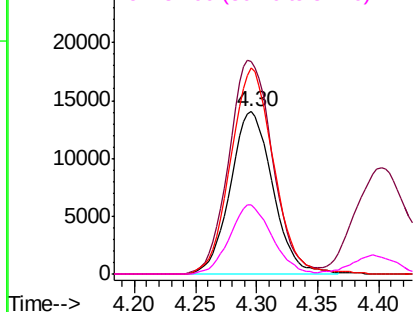
#23

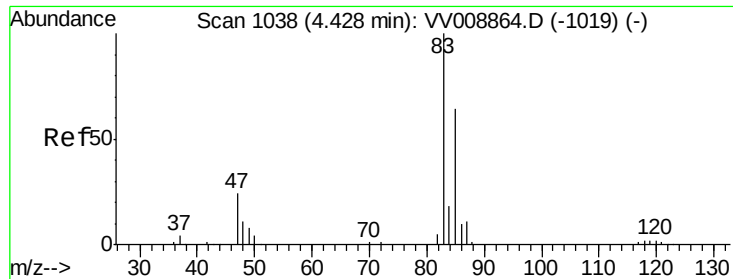
Bromochloromethane
 Concen: 22.685 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. -0.00 min
 Lab File: VV009010.D
 Acq: 18 Dec 2018 12:33

Tgt Ion: 128 Resp: 33866
 Ion Ratio Lower Upper
 128 100
 49 130.8 93.8 174.2
 130 126.7 90.4 168.0
 51 42.4 34.2 51.4



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VV0
 Ion 130.00 (129.70 to 130.70): V
 Ion 51.00 (50.70 to 51.70): VV0

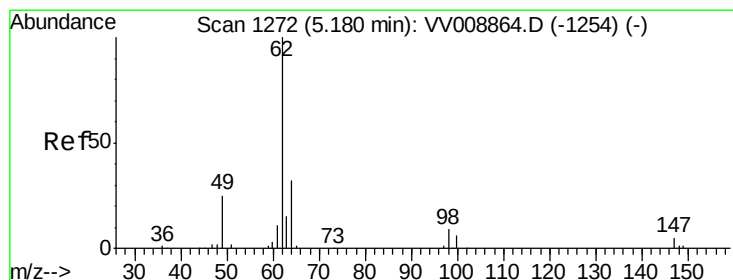
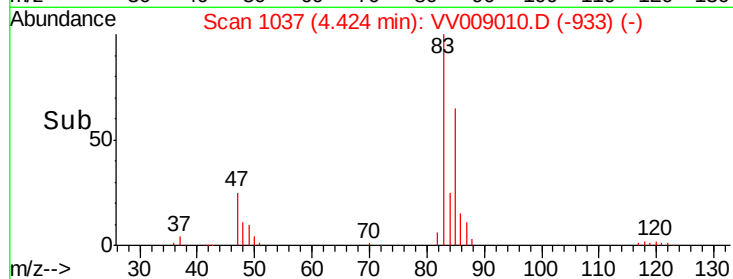
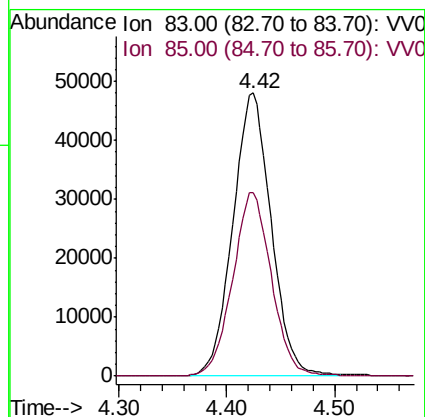
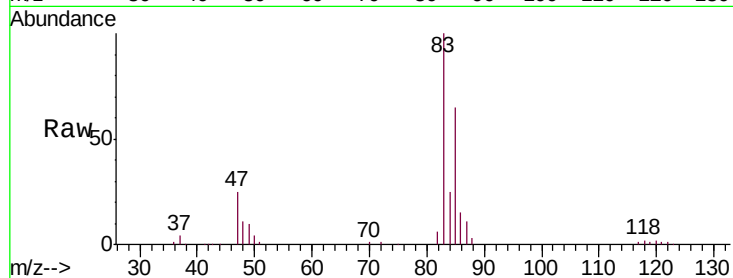




#25
Chloroform
Concen: 22.485 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV009010.D
Acq: 18 Dec 2018 12:33

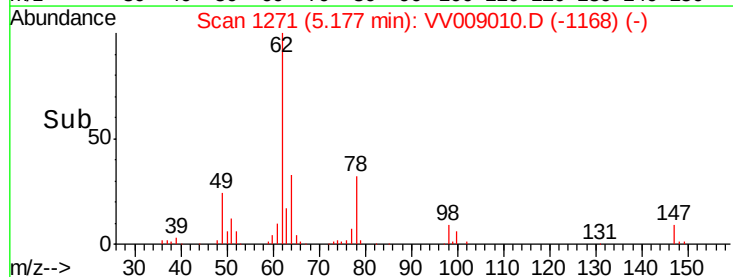
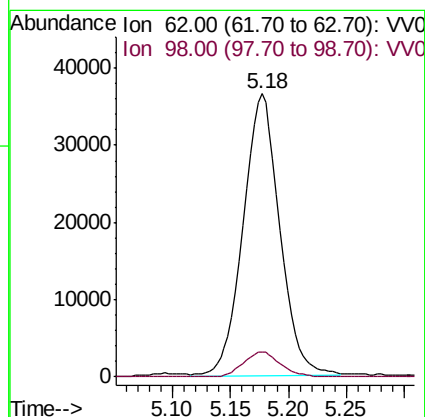
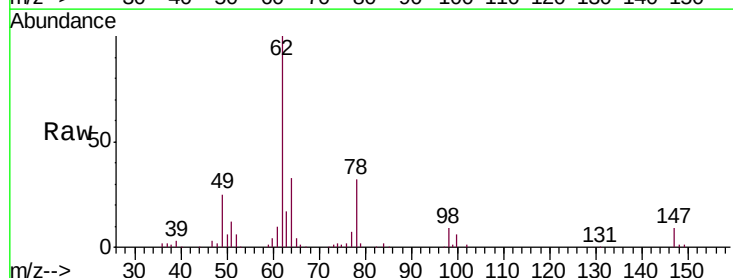
Instrument :
MSVOA_V
ClientSampleId :
VSTD02564

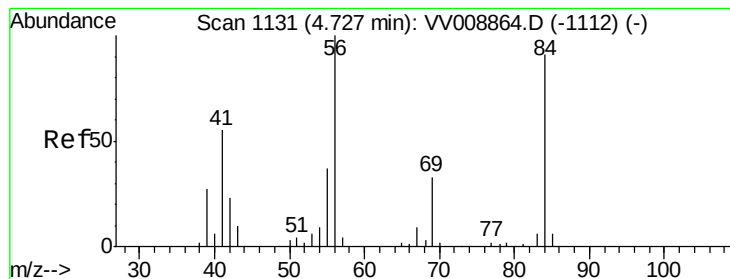
Tgt Ion: 83 Resp: 118831
Ion Ratio Lower Upper
83 100
85 65.6 45.6 84.8



#27
1,2-Dichloroethane
Concen: 22.210 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VV009010.D
Acq: 18 Dec 2018 12:33

Tgt Ion: 62 Resp: 79960
Ion Ratio Lower Upper
62 100
98 8.9 7.4 11.0





#30

Cyclohexane

Concen: 22.353 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV009010.D

Acq: 18 Dec 2018 12:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

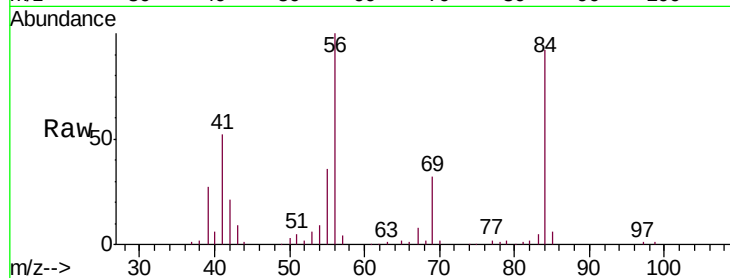
Tgt Ion: 56 Resp: 107611

Ion Ratio Lower Upper

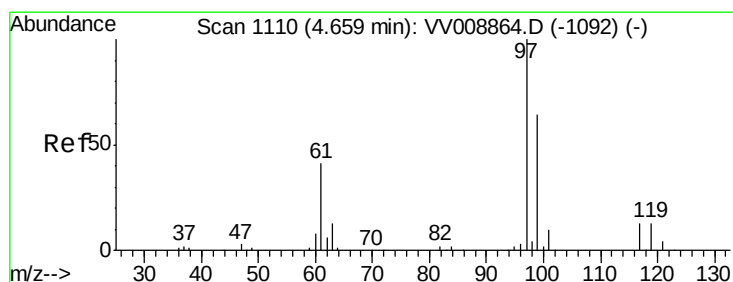
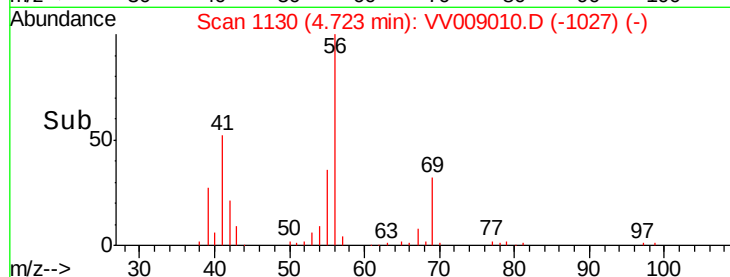
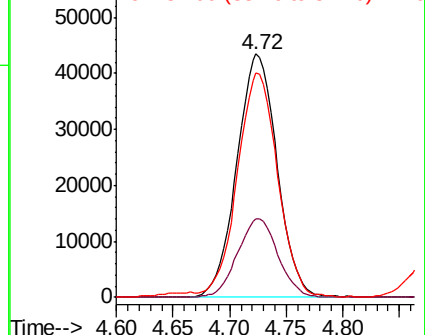
56 100

69 32.4 25.8 38.8

84 91.5 73.0 109.6



Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0



#31

1,1,1-Trichloroethane

Concen: 22.743 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VV009010.D

Acq: 18 Dec 2018 12:33

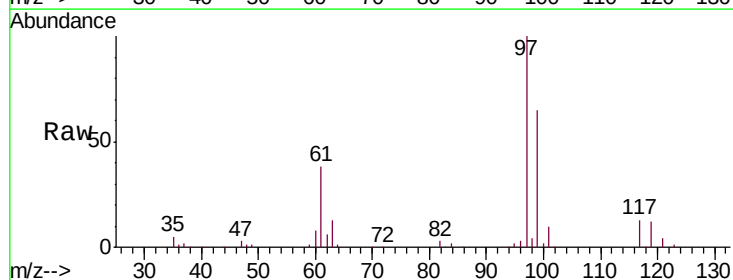
Tgt Ion: 97 Resp: 112106

Ion Ratio Lower Upper

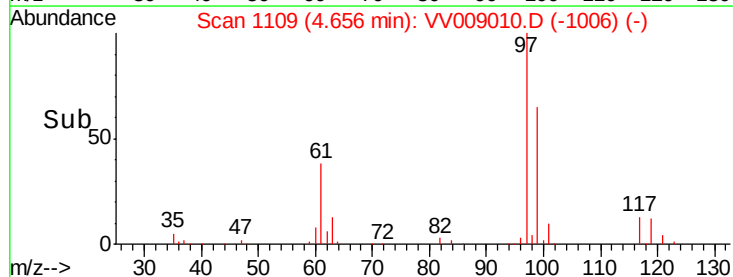
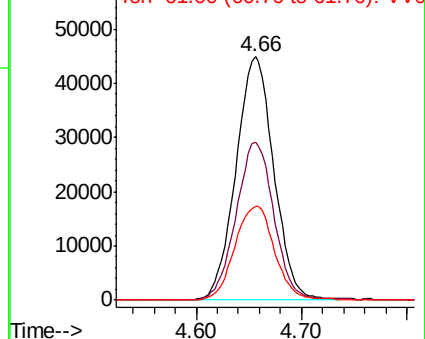
97 100

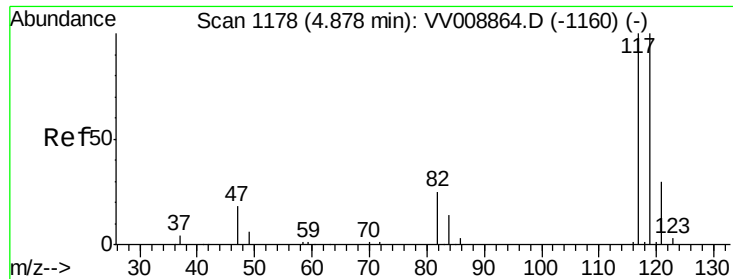
99 64.8 51.9 77.9

61 40.4 33.1 49.7



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.00 (60.70 to 61.70): VV0





#32

Carbon tetrachloride

Concen: 22.812 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV009010.D

Acq: 18 Dec 2018 12:33

Instrument :

MSVOA_V

ClientSampleId :

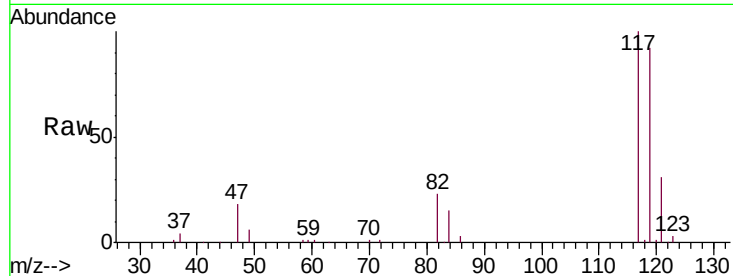
VSTD02564

Tgt Ion:117 Resp: 102656

Ion Ratio Lower Upper

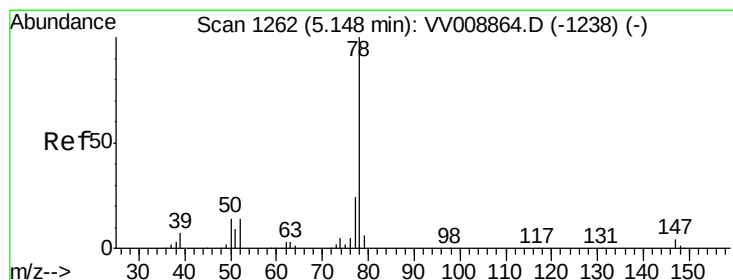
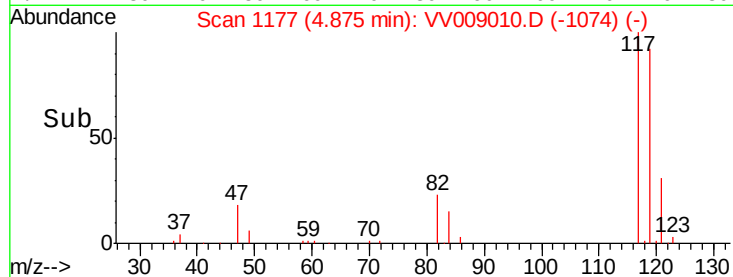
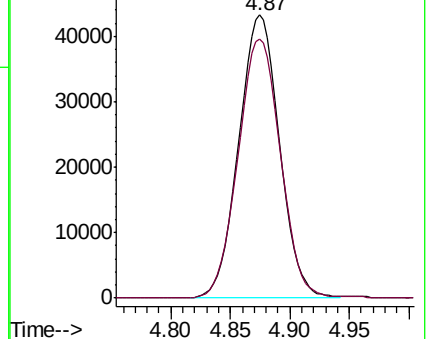
117 100

119 95.0 77.1 115.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 21.986 ug/L

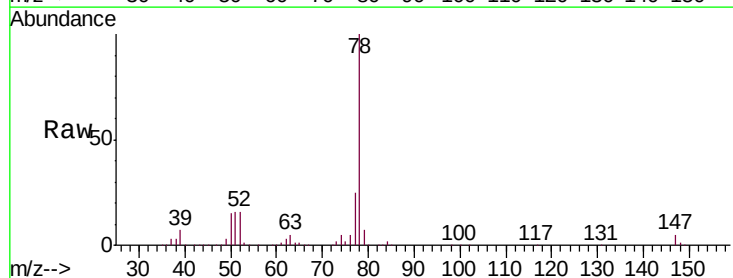
RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

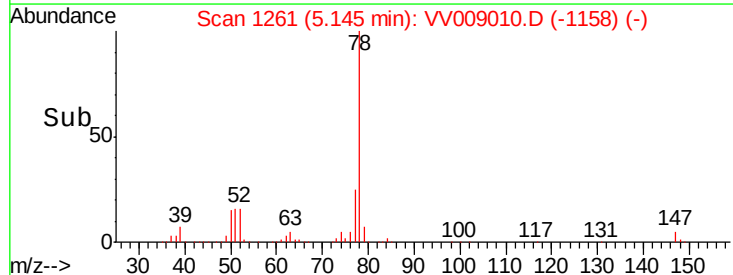
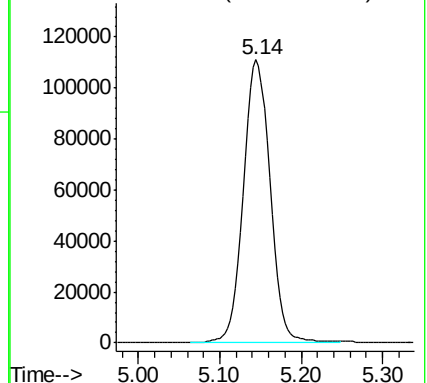
Lab File: VV009010.D

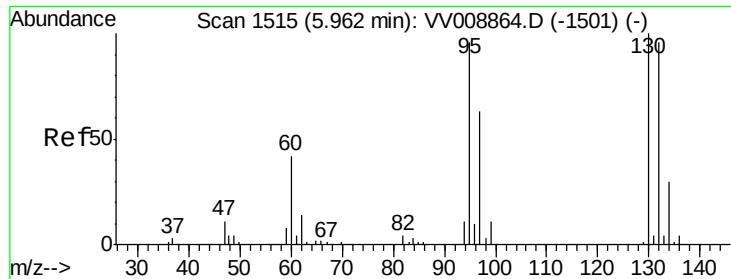
Acq: 18 Dec 2018 12:33

Tgt Ion: 78 Resp: 251842



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 23.137 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV009010.D

Acq: 18 Dec 2018 12:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

Tgt Ion: 95 Resp: 79899

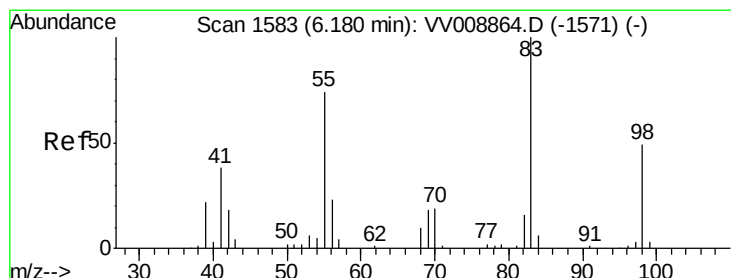
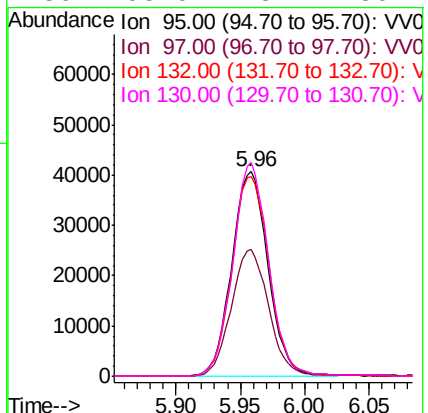
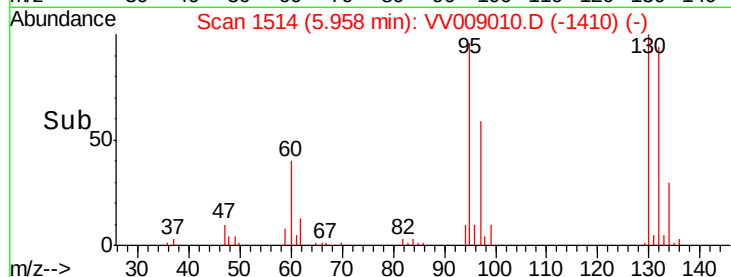
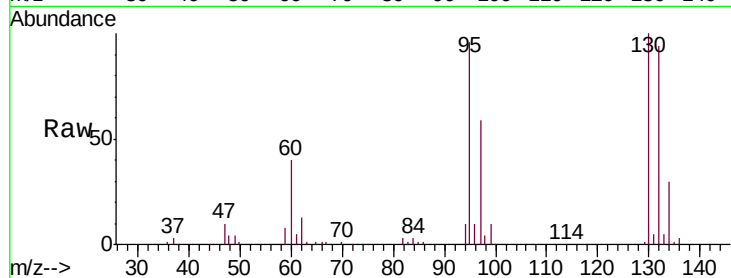
Ion Ratio Lower Upper

95 100

97 63.3 45.3 84.1

132 99.2 70.0 130.0

130 103.0 73.4 136.4



#36

Methylcyclohexane

Concen: 22.294 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VV009010.D

Acq: 18 Dec 2018 12:33

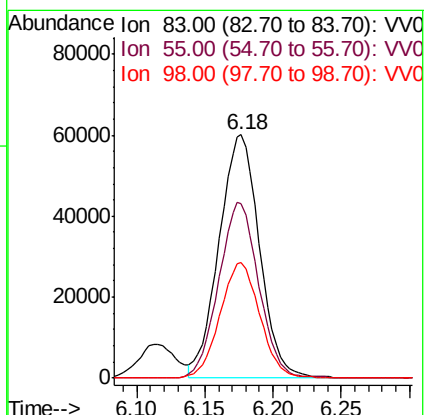
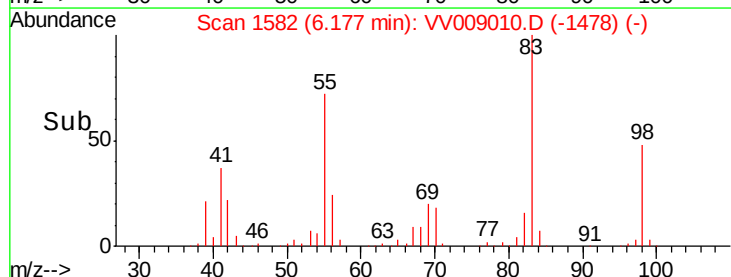
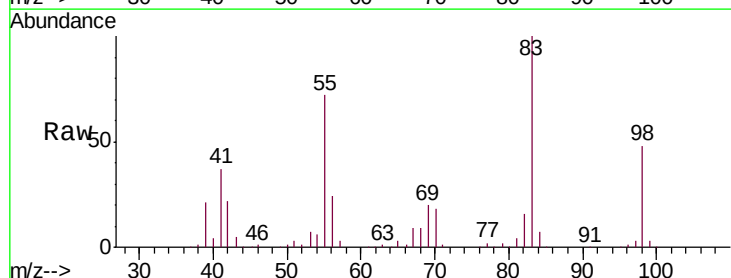
Tgt Ion: 83 Resp: 122783

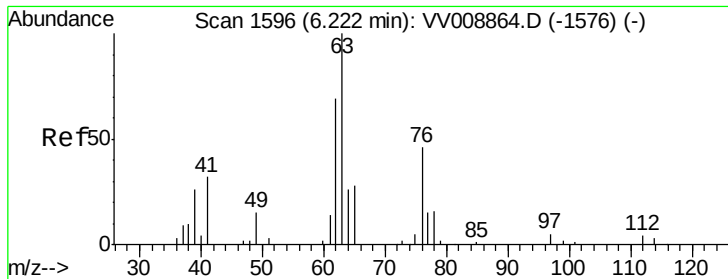
Ion Ratio Lower Upper

83 100

55 72.0 58.2 87.2

98 47.2 37.8 56.8

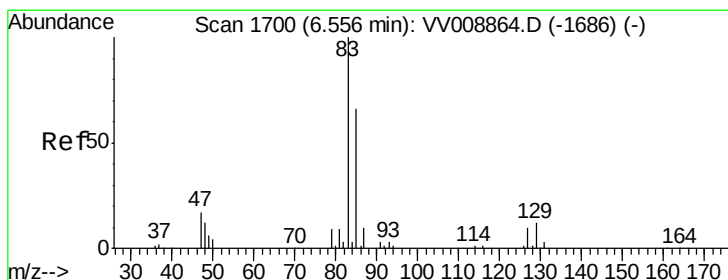
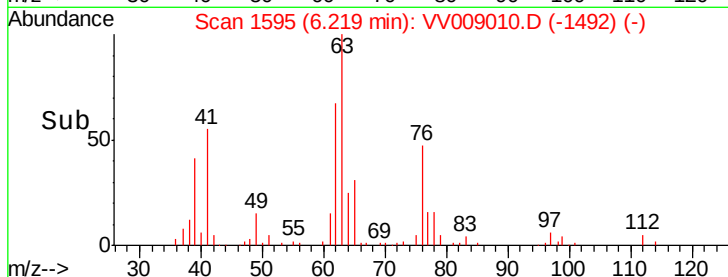
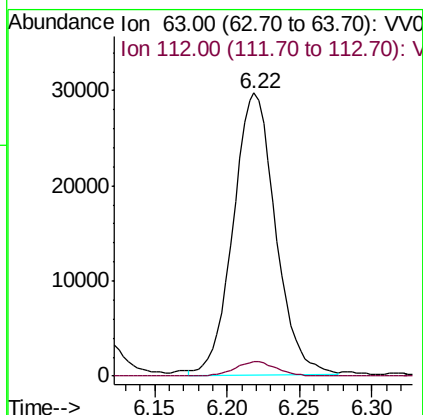
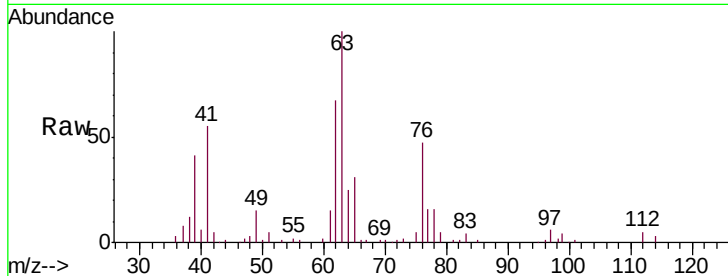




#40
 1,2-Dichloropropane
 Concen: 22.013 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. -0.00 min
 Lab File: VV009010.D
 Acq: 18 Dec 2018 12:33

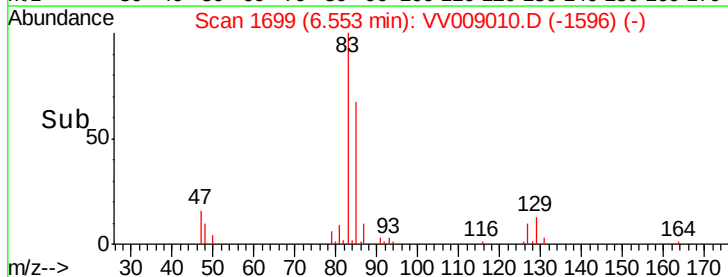
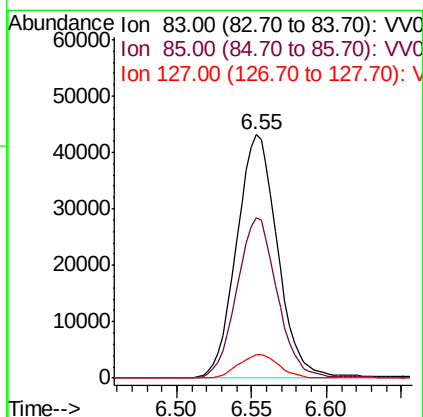
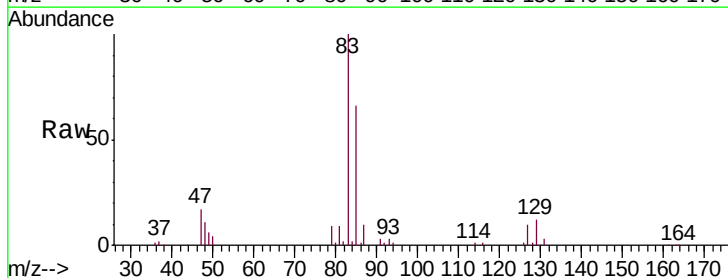
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02564

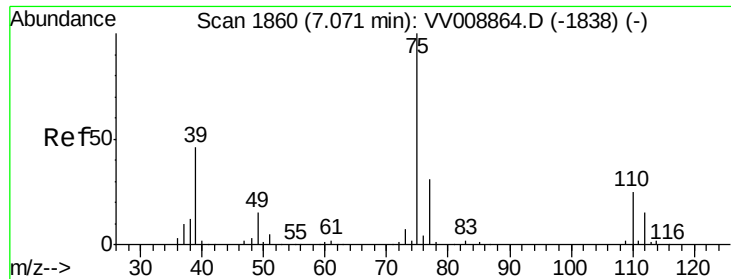
Tgt Ion: 63 Resp: 60515
 Ion Ratio Lower Upper
 63 100
 112 5.0 3.8 5.8



#41
 Bromodichloromethane
 Concen: 22.655 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VV009010.D
 Acq: 18 Dec 2018 12:33

Tgt Ion: 83 Resp: 82087
 Ion Ratio Lower Upper
 83 100
 85 66.0 45.3 84.1
 127 9.6 7.2 10.8



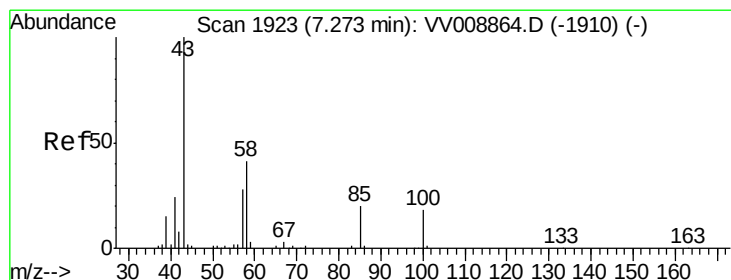
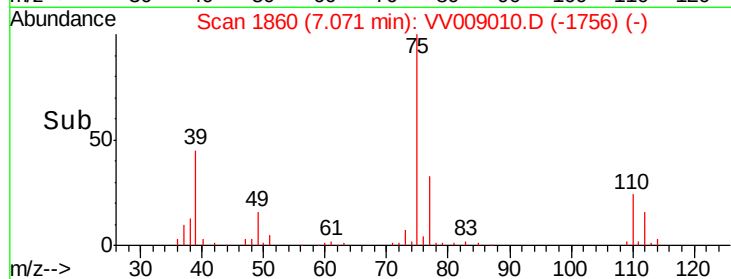
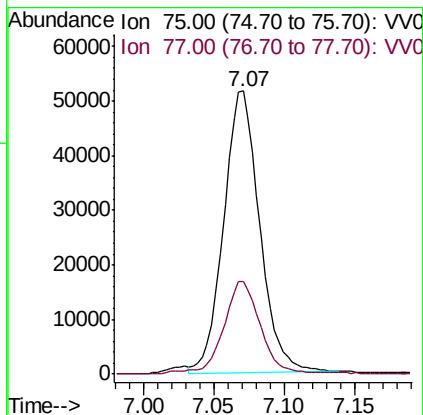
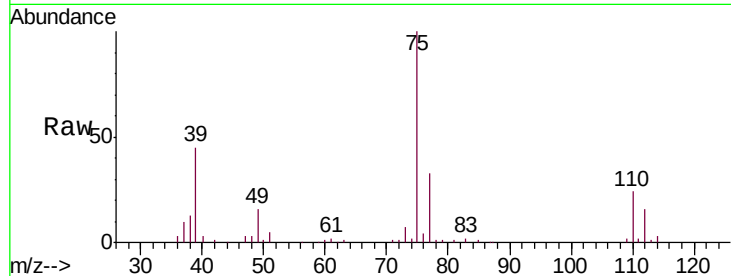


#42

cis-1,3-Dichloropropene
Concen: 22.860 ug/L
RT: 7.07 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VV009010.D
Acq: 18 Dec 2018 12:33

Instrument :
MSVOA_V
ClientSampleId :
VSTD02564

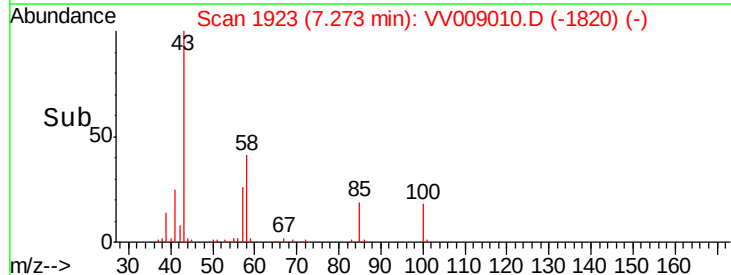
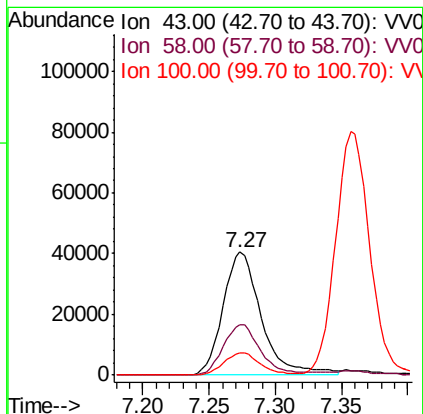
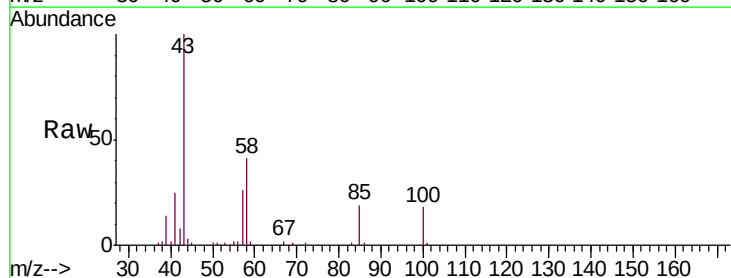
Tgt Ion: 75 Resp: 92005
Ion Ratio Lower Upper
75 100
77 32.7 21.3 39.6

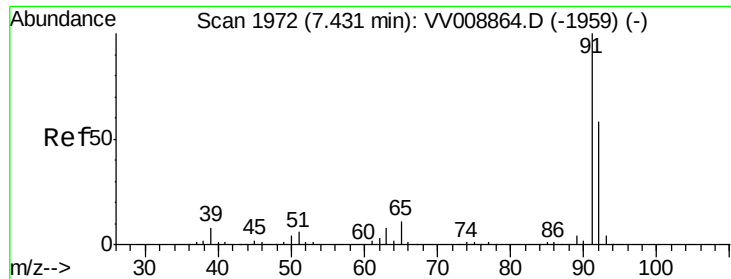


#43

4-Methyl-2-pentanone
Concen: 43.873 ug/L
RT: 7.27 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VV009010.D
Acq: 18 Dec 2018 12:33

Tgt Ion: 43 Resp: 81520
Ion Ratio Lower Upper
43 100
58 40.1 32.2 48.4
100 17.2 13.8 20.8





#44

Toluene

Concen: 22.506 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV009010.D

Acq: 18 Dec 2018 12:33

Instrument :

MSVOA_V

ClientSampleId :

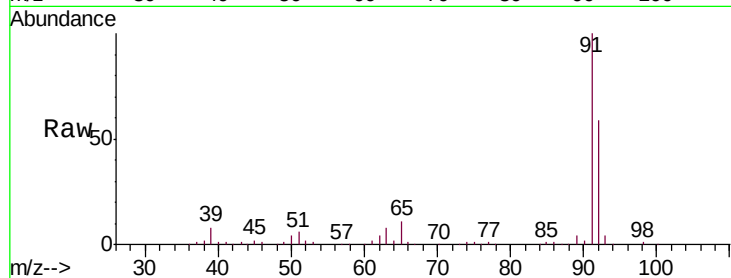
VSTD02564

Tgt Ion: 91 Resp: 270350

Ion Ratio Lower Upper

91 100

92 59.2 41.7 77.5



Abundance Ion 91.00 (90.70 to 91.70): VV008864.D (-1959) (-)

Ion 92.00 (91.70 to 92.70): VV008864.D (-1959) (-)

7.43

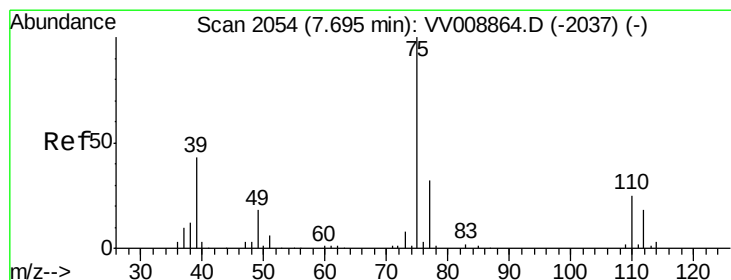
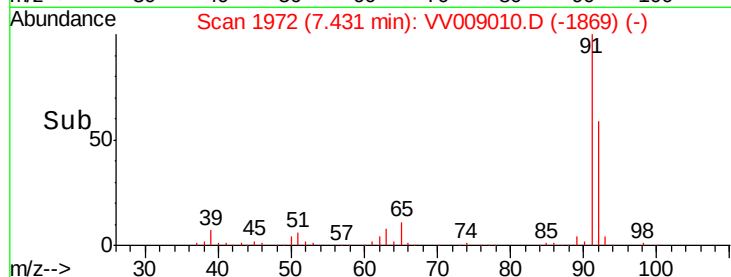
150000

100000

50000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 23.435 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV009010.D

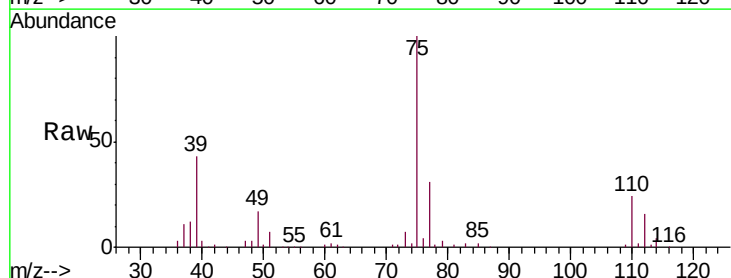
Acq: 18 Dec 2018 12:33

Tgt Ion: 75 Resp: 82222

Ion Ratio Lower Upper

75 100

77 30.8 23.6 43.8



Abundance Ion 75.00 (74.70 to 75.70): VV008864.D (-2037) (-)

Ion 77.00 (76.70 to 77.70): VV008864.D (-2037) (-)

7.69

50000

40000

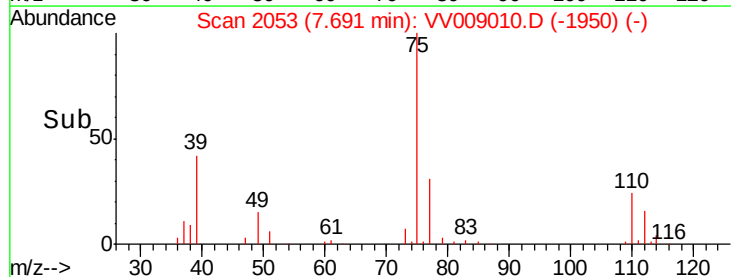
30000

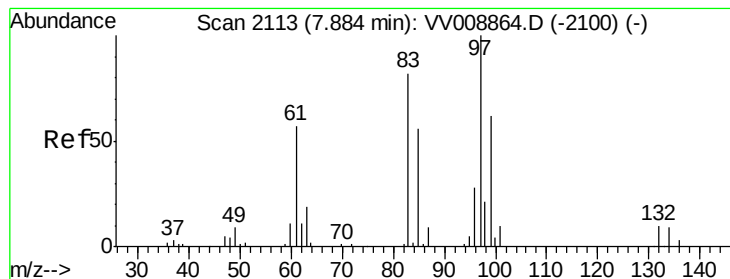
20000

10000

0

Time-->





#46

1,1,2-Trichloroethane

Concen: 22.650 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VV009010.D

Acq: 18 Dec 2018 12:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

Tgt Ion: 97 Resp: 51881

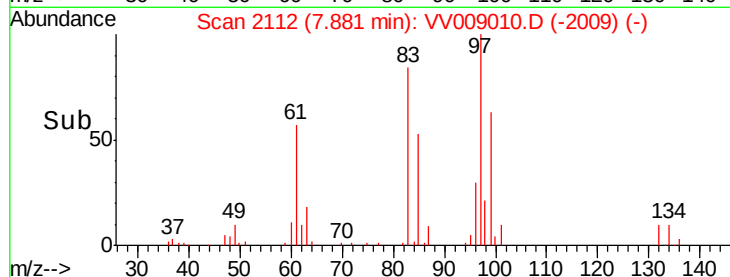
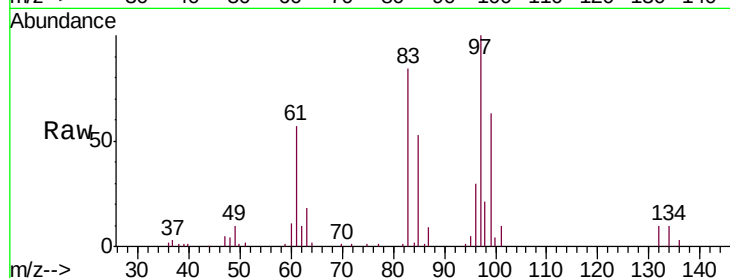
Ion Ratio Lower Upper

97 100

83 83.9 56.6 105.2

85 52.8 36.6 68.0

99 63.1 43.2 80.2



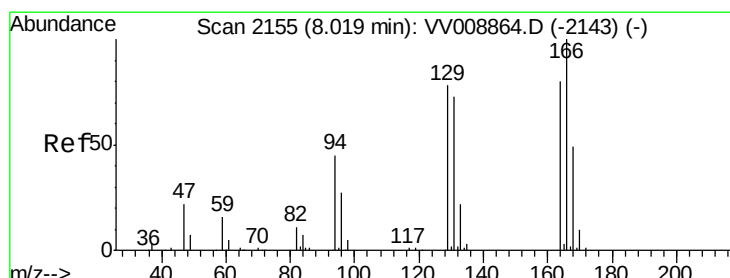
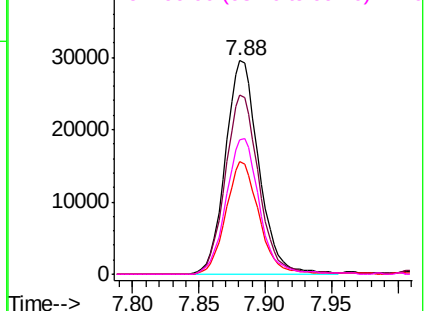
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 99.00 (98.70 to 99.70): VV0



#47

Tetrachloroethene

Concen: 22.064 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. -0.00 min

Lab File: VV009010.D

Acq: 18 Dec 2018 12:33

Tgt Ion: 164 Resp: 61964

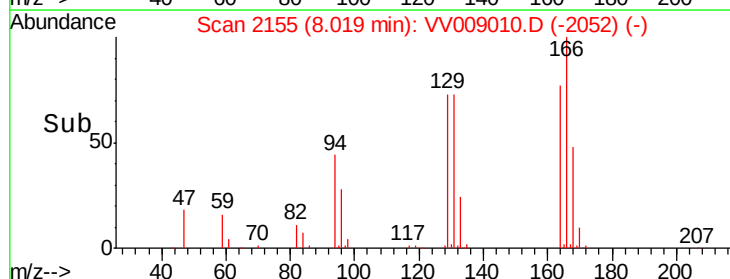
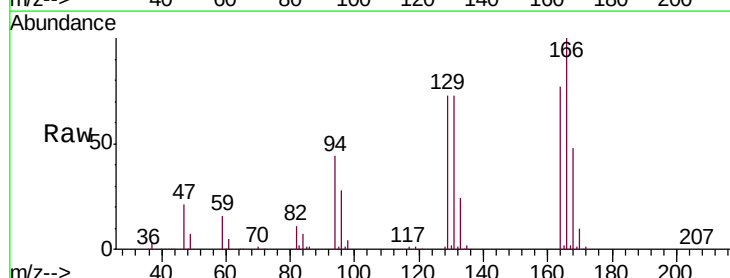
Ion Ratio Lower Upper

164 100

129 95.1 64.6 120.0

131 94.9 64.5 119.7

166 129.5 88.7 164.7



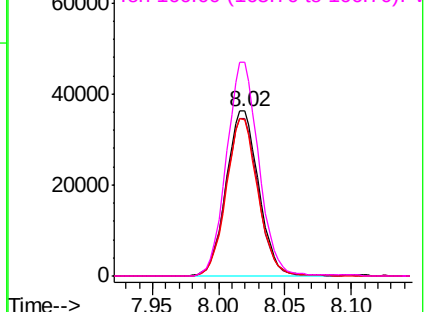
Abundance

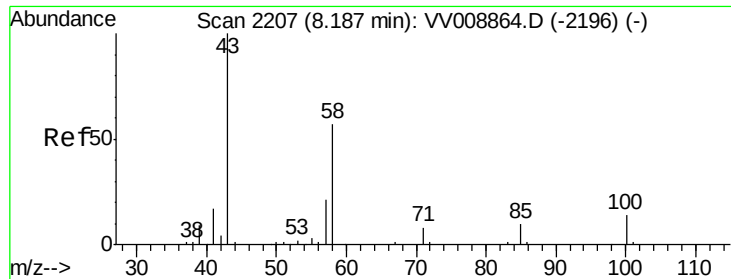
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

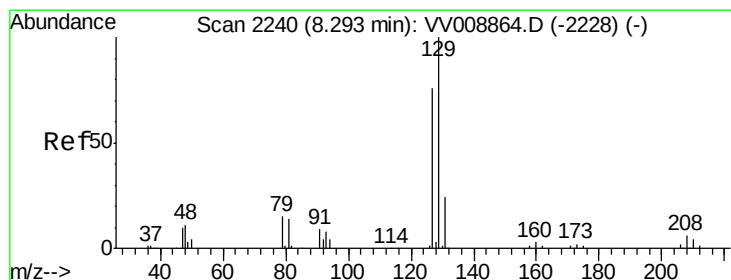
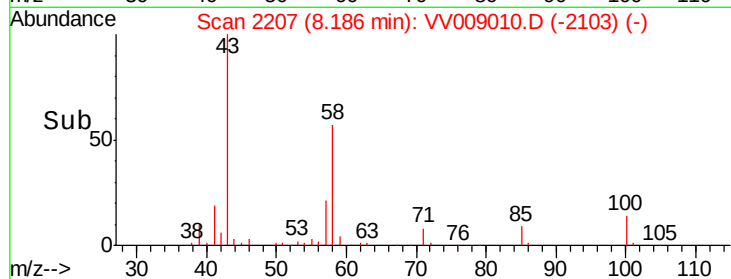
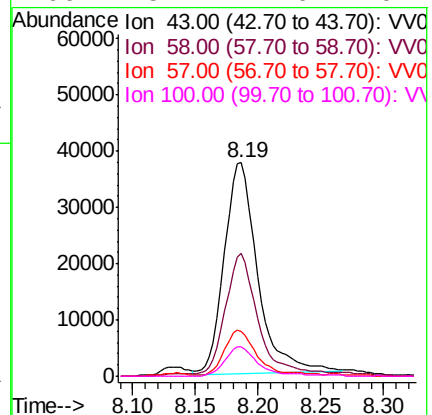
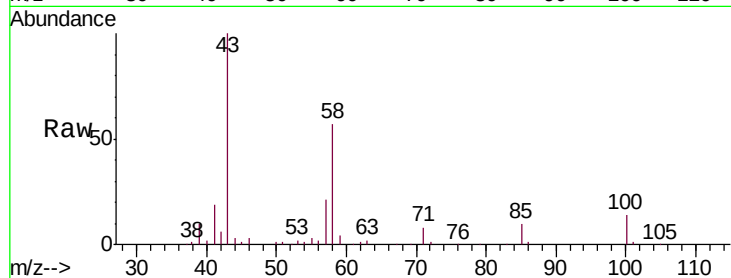




#49
2-Hexanone
Concen: 45.189 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV009010.D
Acq: 18 Dec 2018 12:33

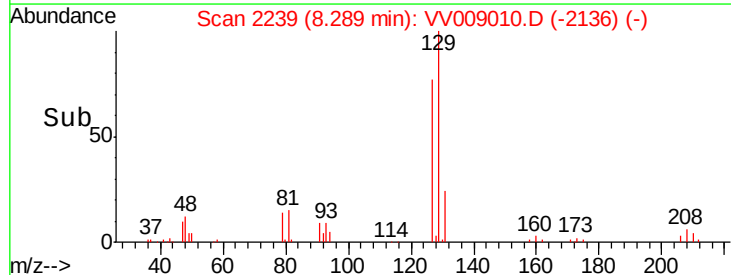
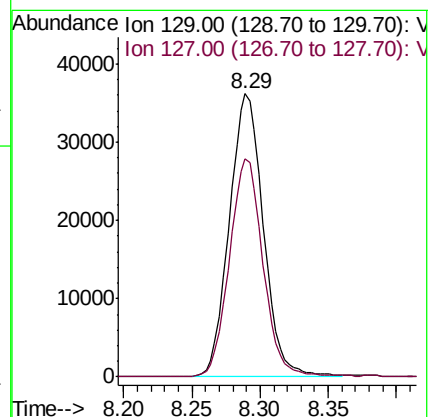
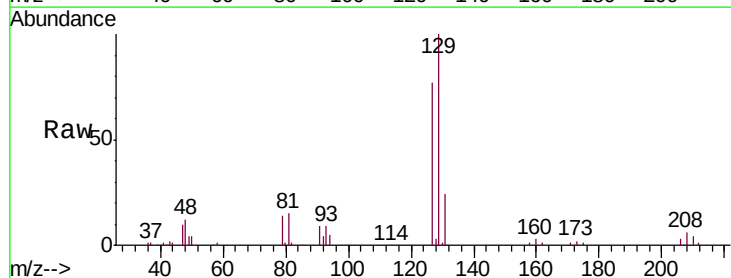
Instrument :
MSVOA_V
ClientSampleId :
VSTD02564

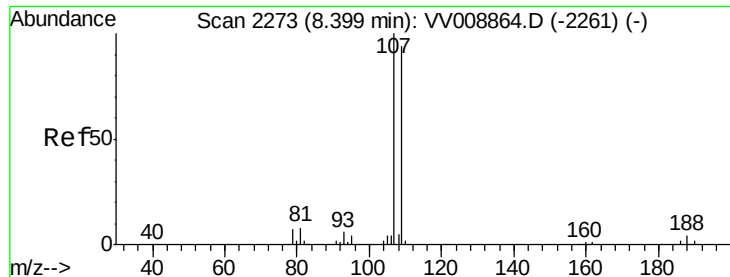
Tgt Ion:	43	Resp:	69465
Ion	Ratio	Lower	Upper
43	100		
58	54.3	43.9	65.9
57	21.1	15.7	23.5
100	13.4	11.0	16.4



#50
Dibromochloromethane
Concen: 23.949 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV009010.D
Acq: 18 Dec 2018 12:33

Tgt Ion:	129	Resp:	62881
Ion	Ratio	Lower	Upper
129	100		
127	77.2	53.5	99.3





#51

1,2-Dibromoethane

Concen: 22.881 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VV009010.D

Acq: 18 Dec 2018 12:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

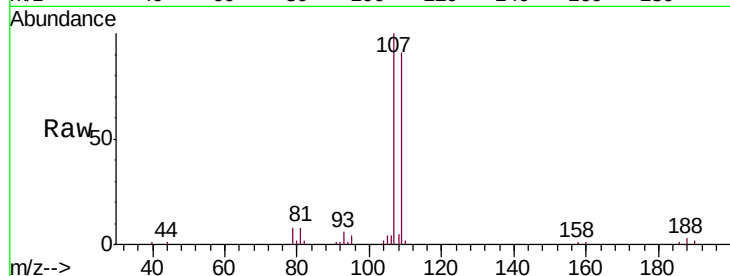
Tgt Ion:107 Resp: 52632

Ion Ratio Lower Upper

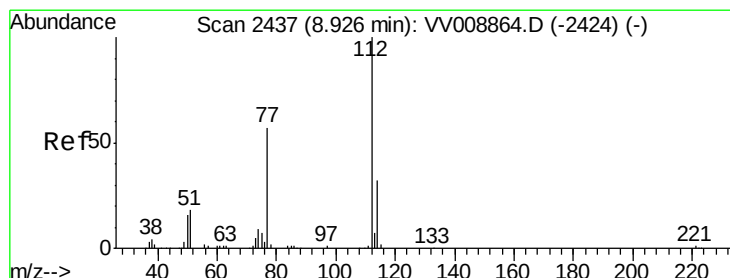
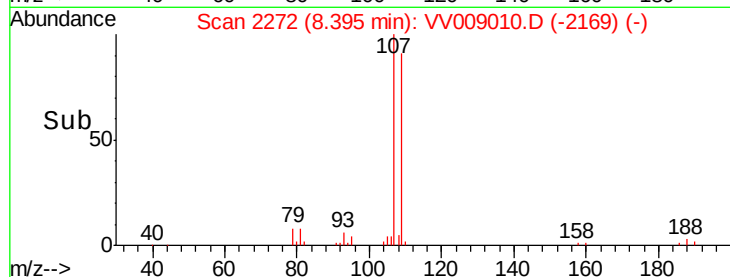
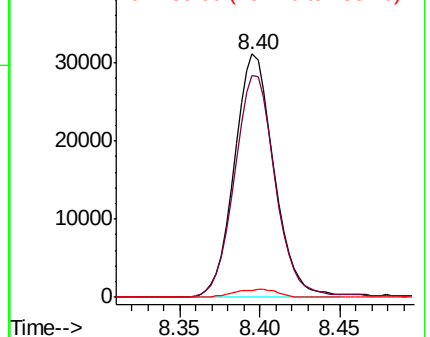
107 100

109 90.9 65.8 122.2

188 3.0 3.0 4.6#



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 22.389 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VV009010.D

Acq: 18 Dec 2018 12:33

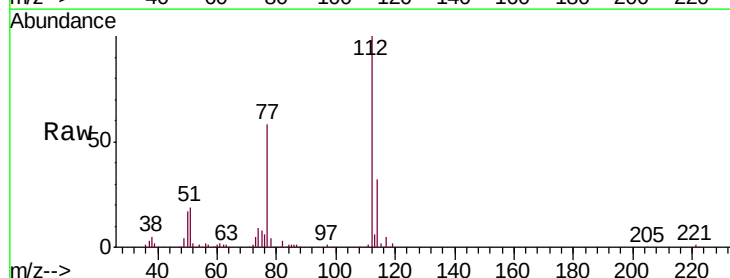
Tgt Ion:112 Resp: 175122

Ion Ratio Lower Upper

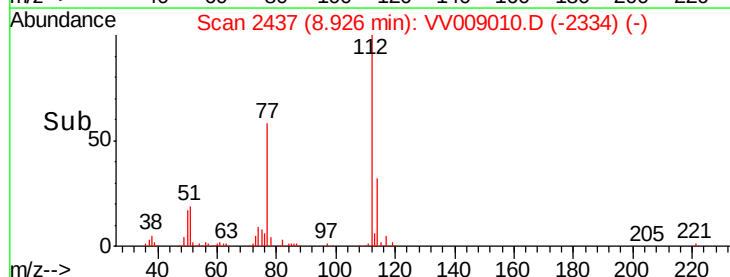
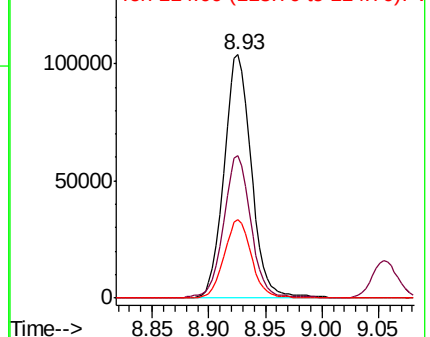
112 100

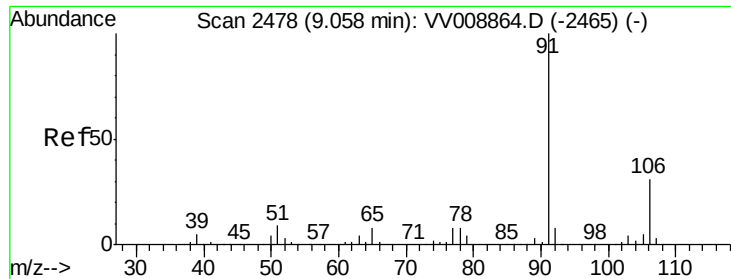
77 58.3 44.6 66.8

114 32.1 22.6 42.0



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 77.00 (76.70 to 77.70): V
Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 22.444 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV009010.D

Acq: 18 Dec 2018 12:33

Instrument :

MSVOA_V

ClientSampleId :

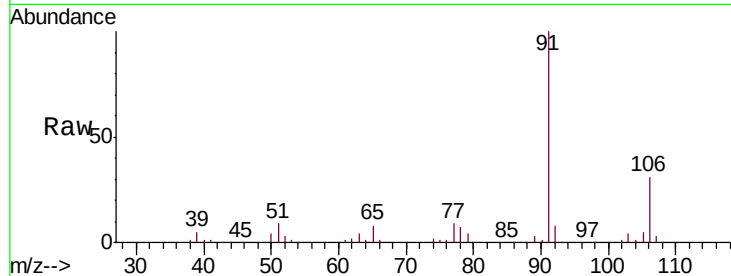
VSTD02564

Tgt Ion: 91 Resp: 292482

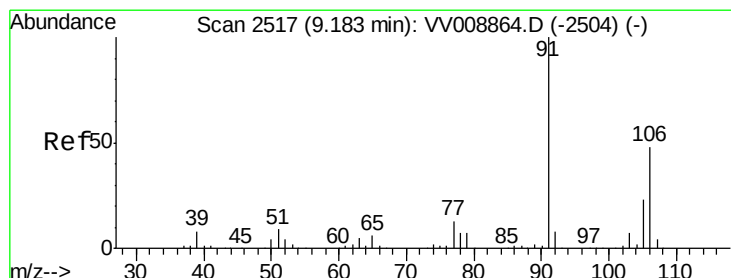
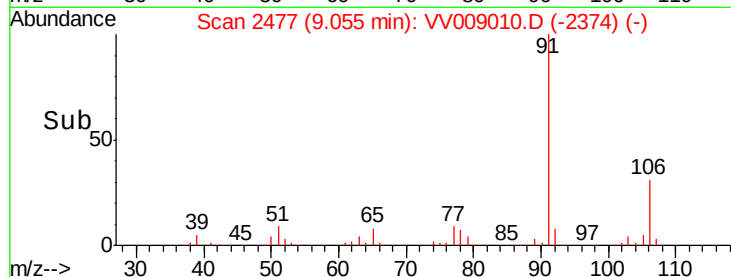
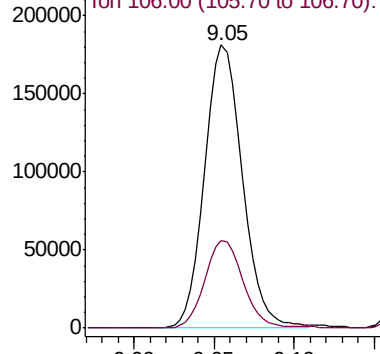
Ion Ratio Lower Upper

91 100

106 31.2 21.3 39.5



Abundance Ion 91.00 (90.70 to 91.70): VV008864.D (-2465) (-)



#54

m,p-Xylene

Concen: 22.967 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV009010.D

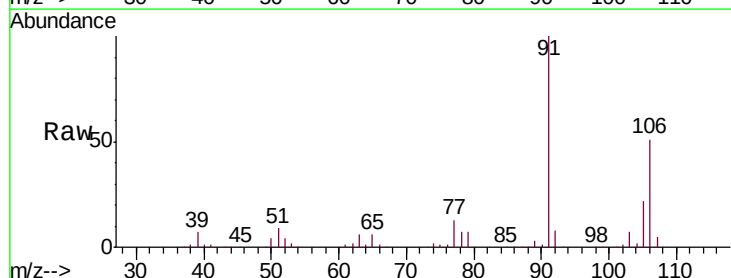
Acq: 18 Dec 2018 12:33

Tgt Ion: 106 Resp: 113328

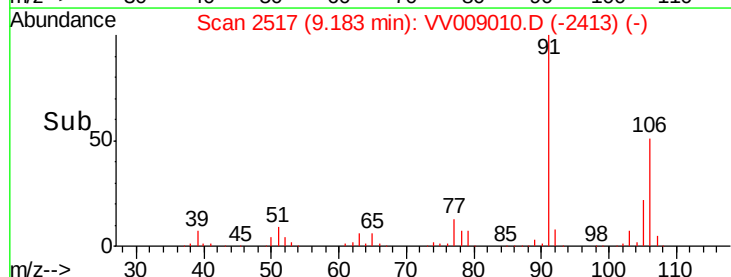
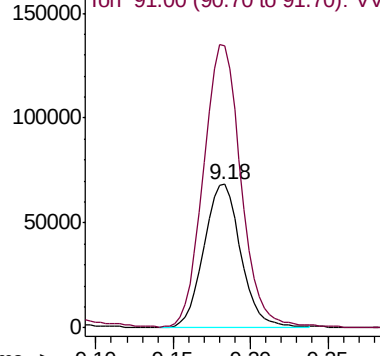
Ion Ratio Lower Upper

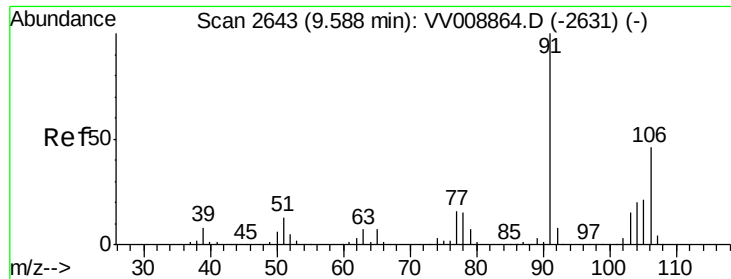
106 100

91 197.0 141.3 262.3



Abundance Ion 106.00 (105.70 to 106.70): VV008864.D (-2504) (-)

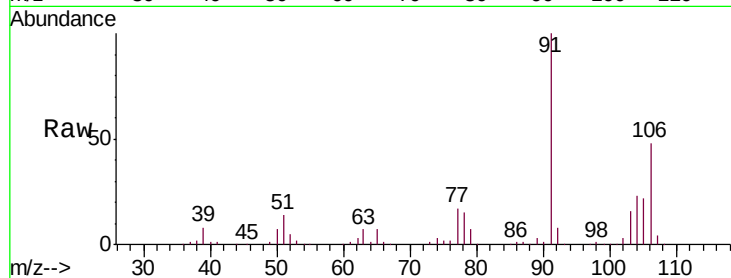




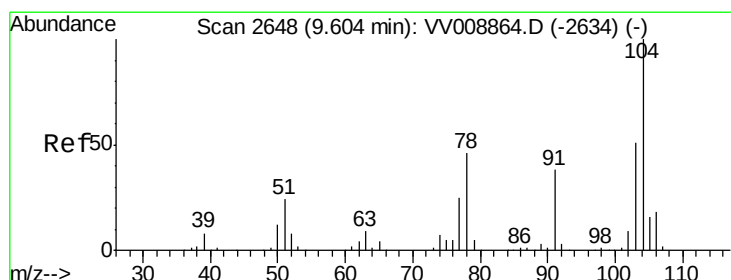
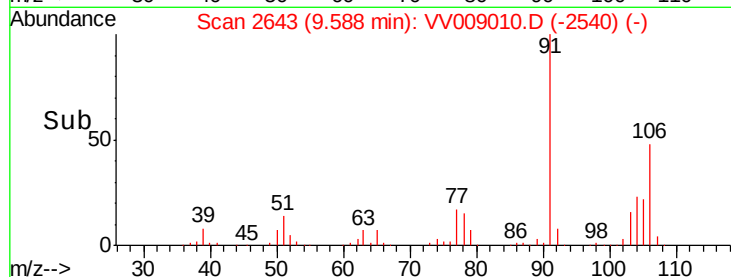
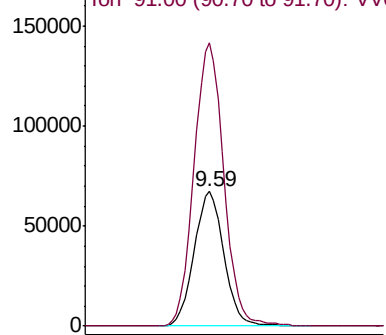
#55
o-xylene
Concen: 23.597 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. -0.00 min
Lab File: VV009010.D
Acq: 18 Dec 2018 12:33

Instrument :
MSVOA_V
ClientSampleId :
VSTD02564

Tgt Ion:106 Resp: 108184
Ion Ratio Lower Upper
106 100
91 210.1 148.3 275.5

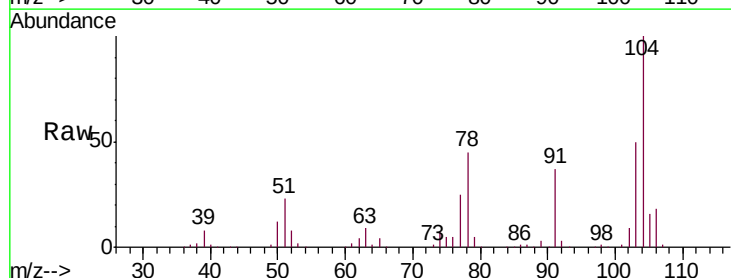


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

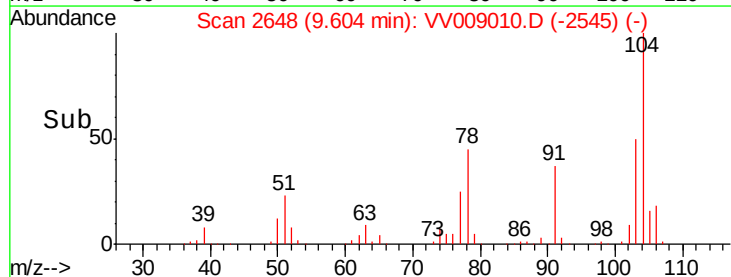
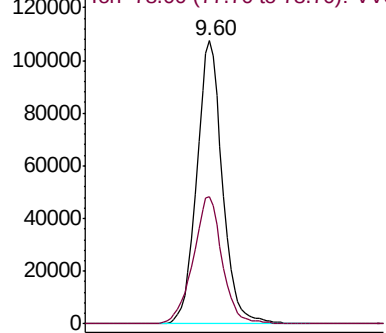


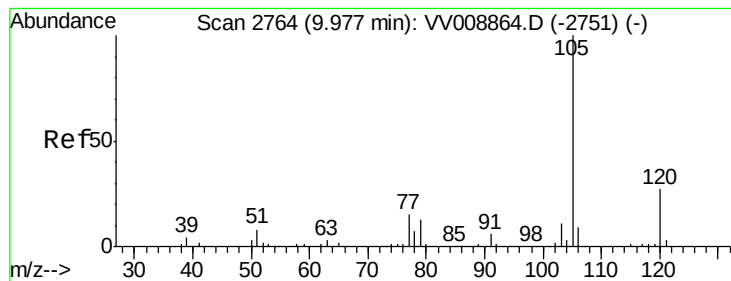
#56
Styrene
Concen: 23.432 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. -0.00 min
Lab File: VV009010.D
Acq: 18 Dec 2018 12:33

Tgt Ion:104 Resp: 173297
Ion Ratio Lower Upper
104 100
78 45.1 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 23.298 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV009010.D

Acq: 18 Dec 2018 12:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

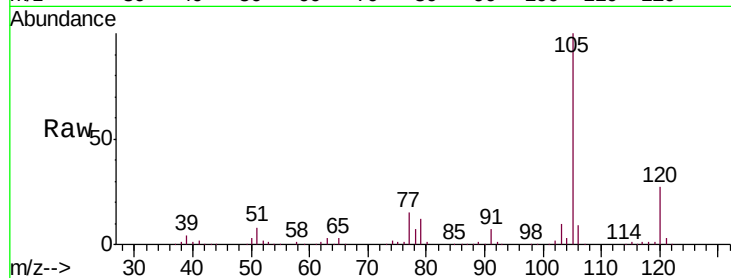
Tgt Ion: 105 Resp: 290307

Ion Ratio Lower Upper

105 100

120 26.6 21.7 32.5

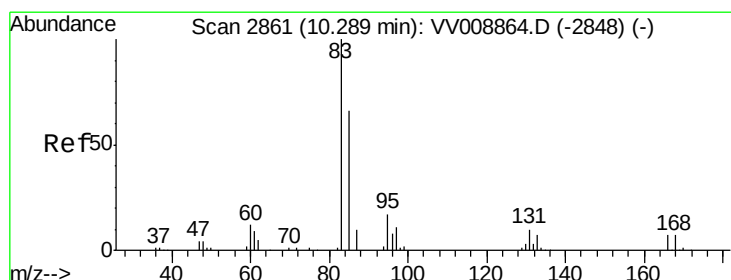
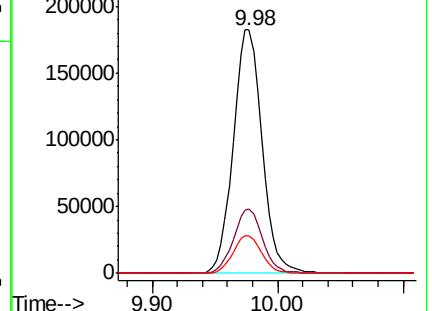
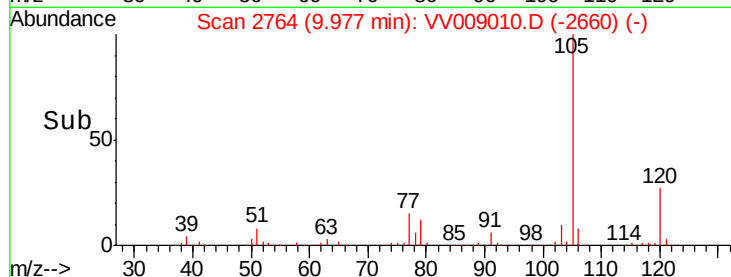
77 15.6 12.4 18.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 21.843 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VV009010.D

Acq: 18 Dec 2018 12:33

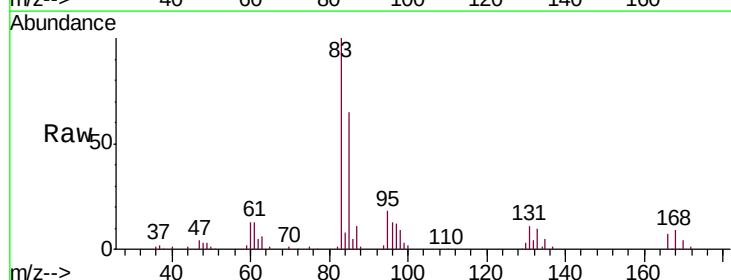
Tgt Ion: 83 Resp: 54090

Ion Ratio Lower Upper

83 100

85 64.6 44.3 82.3

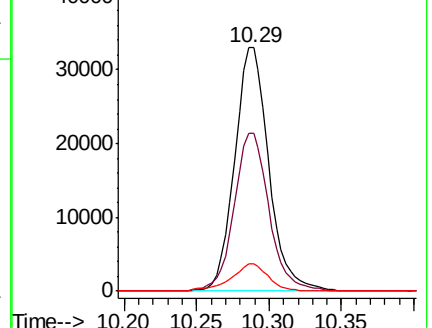
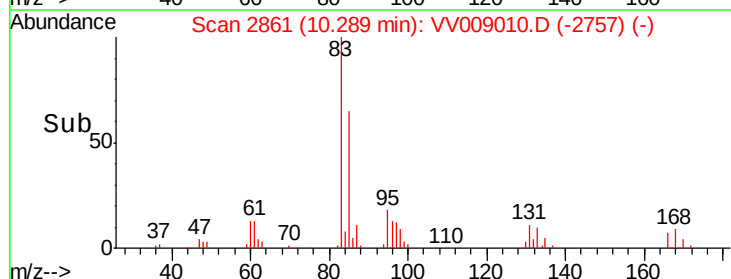
131 11.0 7.8 11.8

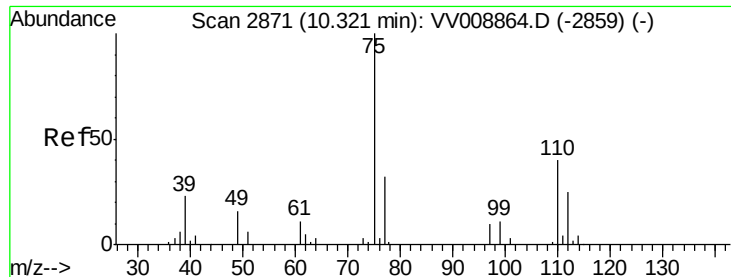


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

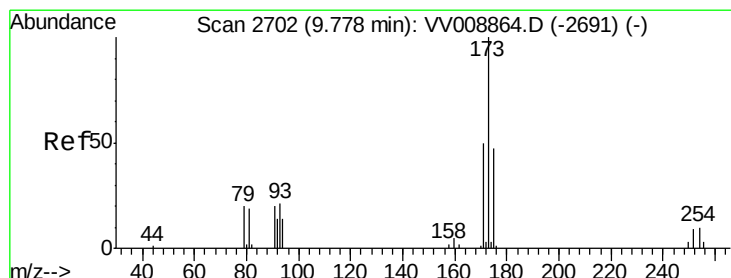
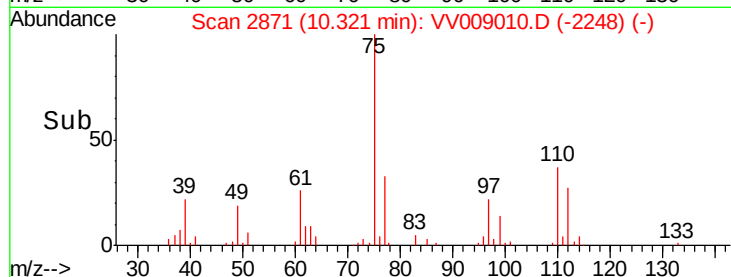
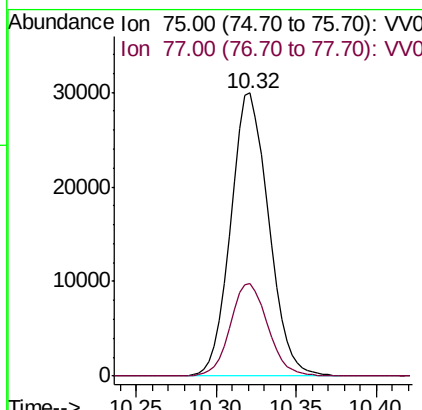
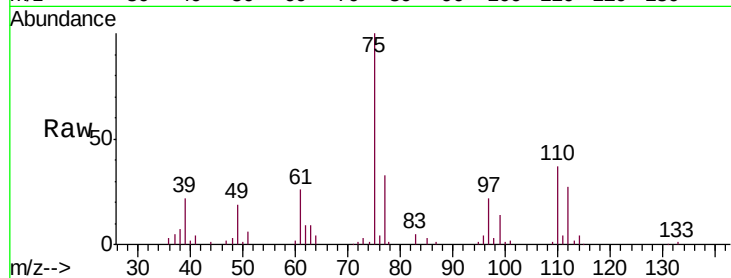




#59
1,2,3-Trichloropropane
Concen: 22.616 ug/L
RT: 10.32 min Scan# 2871
Delta R.T. 0.00 min
Lab File: VV009010.D
Acq: 18 Dec 2018 12:33

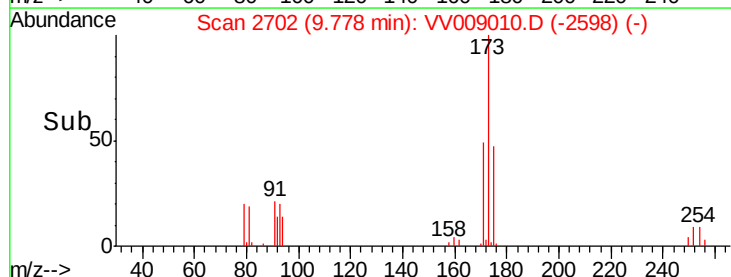
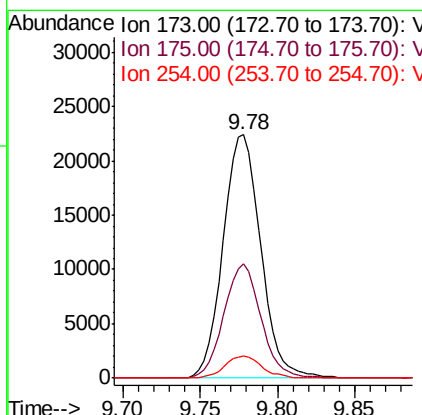
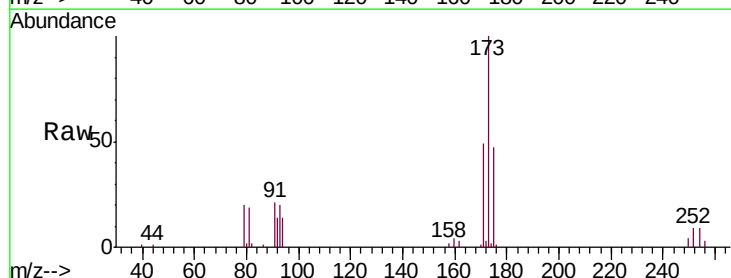
Instrument :
MSVOA_V
ClientSampleId :
VSTD02564

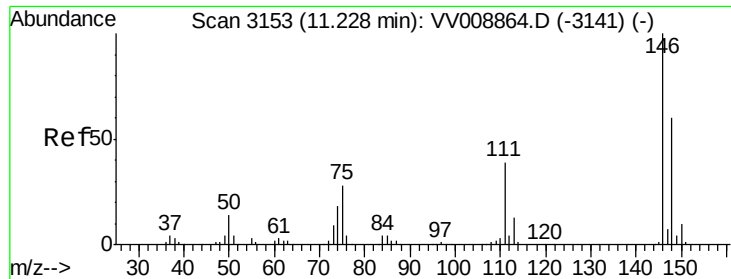
Tgt Ion: 75 Resp: 48458
Ion Ratio Lower Upper
75 100
77 32.3 25.6 38.4



#62
Bromoform
Concen: 23.984 ug/L
RT: 9.78 min Scan# 2702
Delta R.T. 0.00 min
Lab File: VV009010.D
Acq: 18 Dec 2018 12:33

Tgt Ion: 173 Resp: 37861
Ion Ratio Lower Upper
173 100
175 46.2 37.7 56.5
254 8.8 7.1 10.7

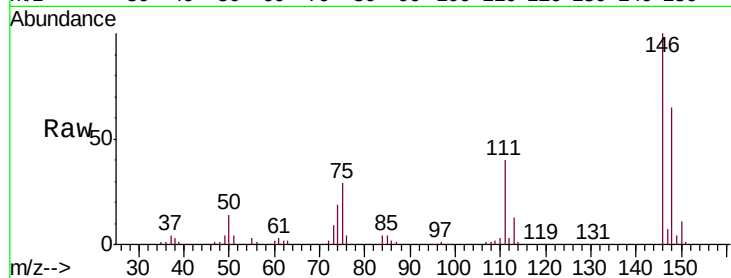




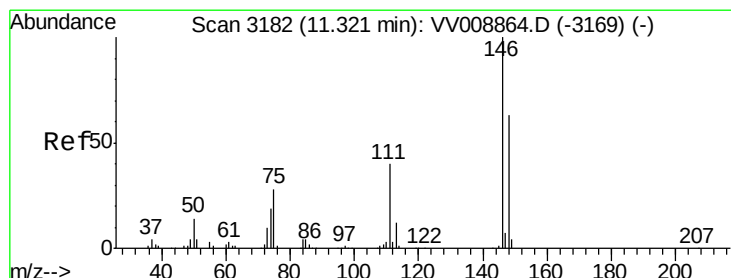
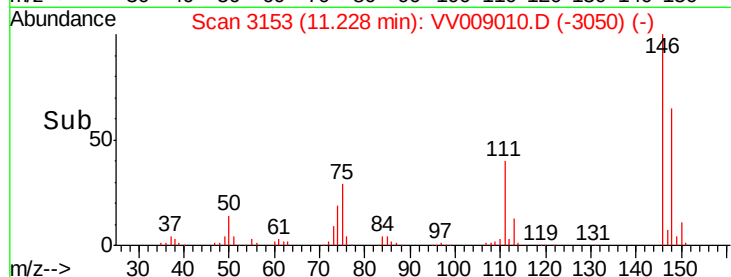
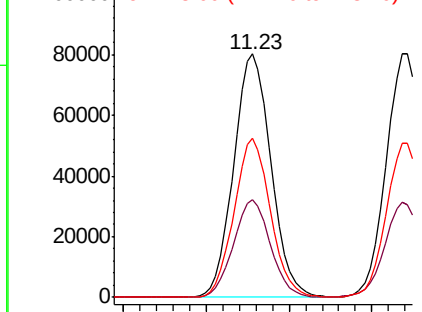
#63
 1,3-Dichlorobenzene
 Concen: 22.315 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. -0.00 min
 Lab File: VV009010.D
 Acq: 18 Dec 2018 12:33

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02564

Tgt Ion:146 Resp: 125722
 Ion Ratio Lower Upper
 146 100
 111 40.4 27.5 51.1
 148 65.2 44.0 81.8

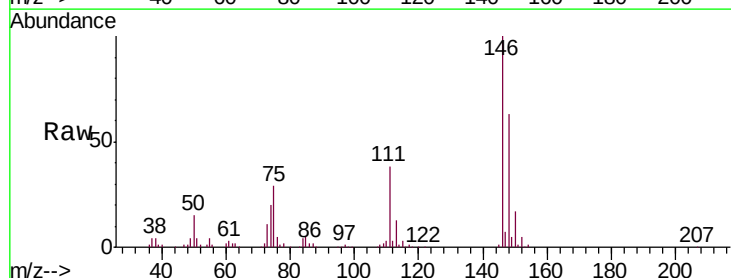


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

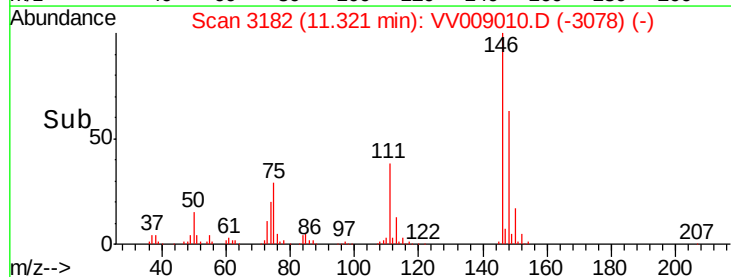
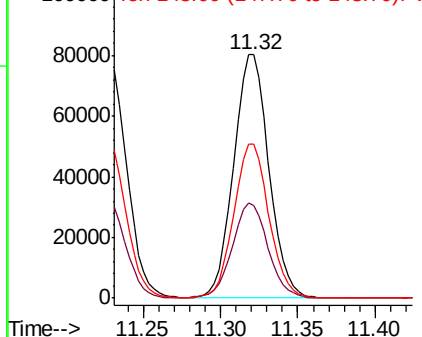


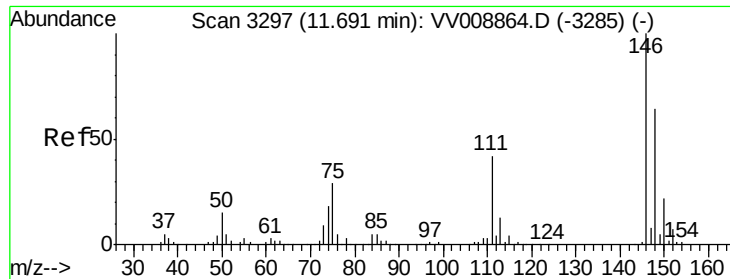
#64
 1,4-Dichlorobenzene
 Concen: 21.768 ug/L
 RT: 11.32 min Scan# 3182
 Delta R.T. 0.00 min
 Lab File: VV009010.D
 Acq: 18 Dec 2018 12:33

Tgt Ion:146 Resp: 126202
 Ion Ratio Lower Upper
 146 100
 111 37.9 26.8 49.8
 148 63.1 45.8 85.0



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

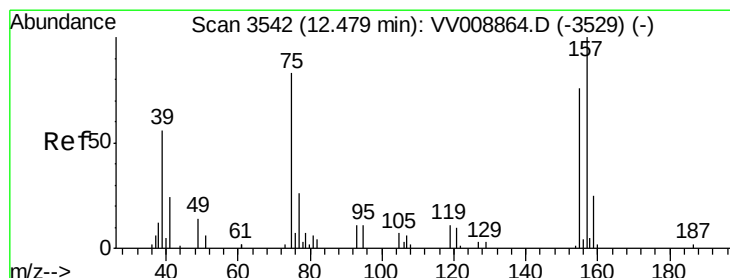
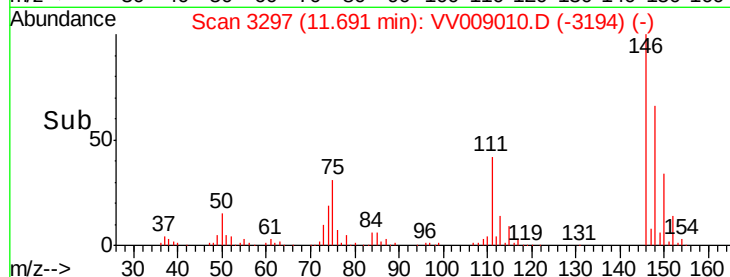
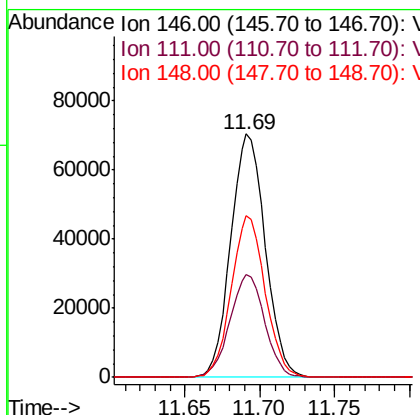
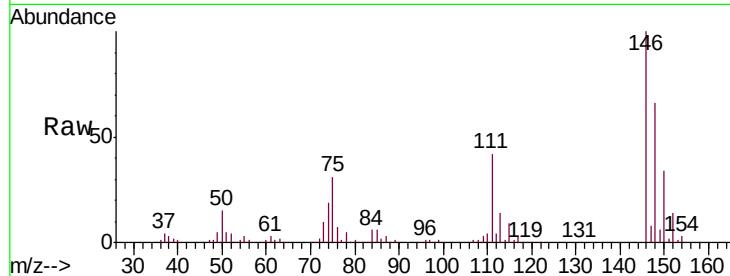




#65
 1,2-Dichlorobenzene
 Concen: 21.751 ug/L
 RT: 11.69 min Scan# 3297
 Delta R.T. -0.00 min
 Lab File: VV009010.D
 Acq: 18 Dec 2018 12:33

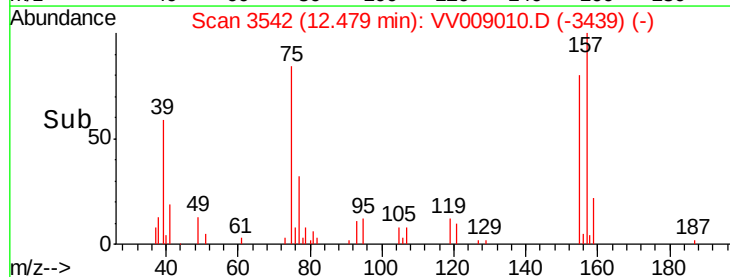
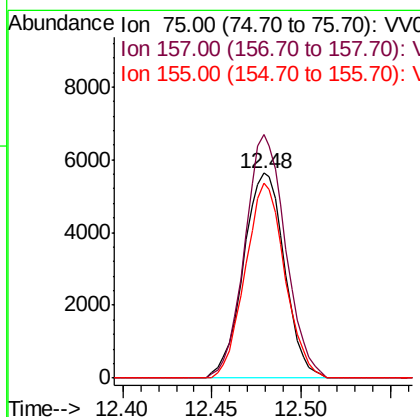
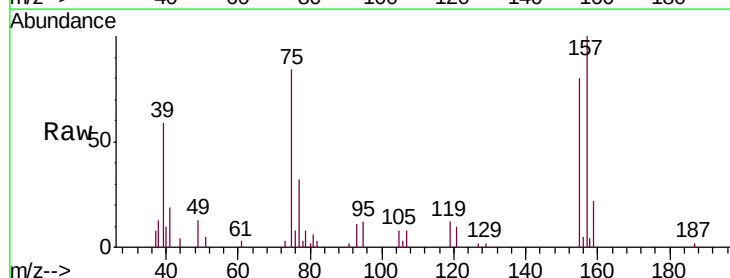
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02564

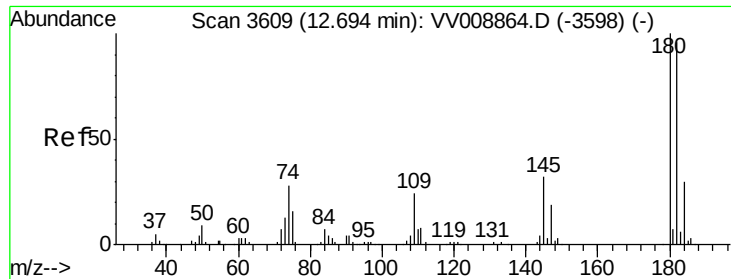
Tgt Ion: 146 Resp: 112968
 Ion Ratio Lower Upper
 146 100
 111 42.3 34.2 51.4
 148 66.3 51.0 76.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 21.270 ug/L
 RT: 12.48 min Scan# 3542
 Delta R.T. -0.00 min
 Lab File: VV009010.D
 Acq: 18 Dec 2018 12:33

Tgt Ion: 75 Resp: 9051
 Ion Ratio Lower Upper
 75 100
 157 118.8 95.8 143.6
 155 95.2 71.4 107.2

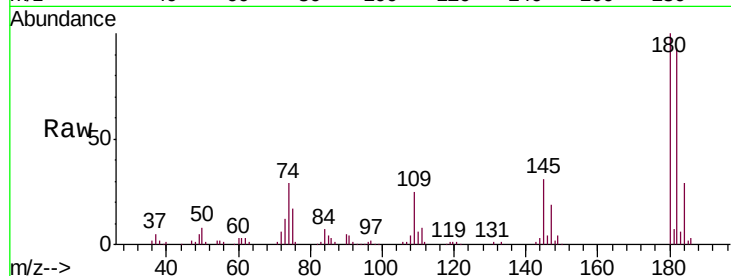




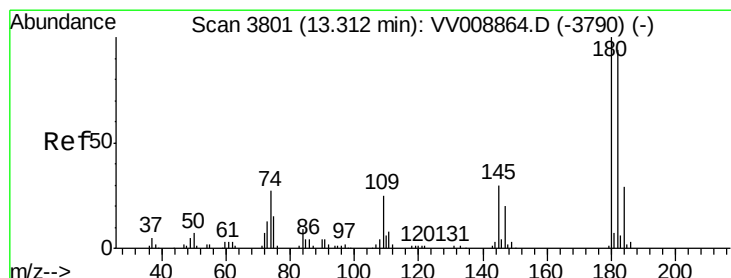
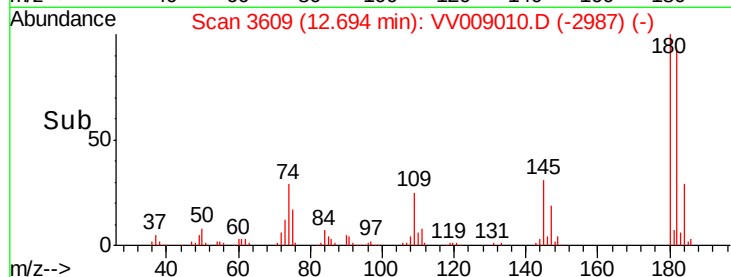
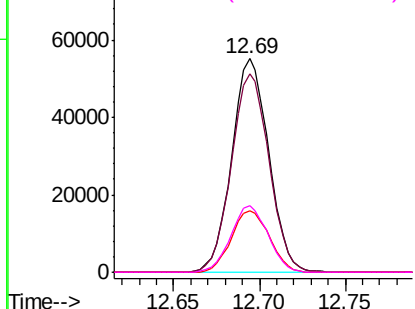
#67
 1,3,5-Trichlorobenzene
 Concen: 20.377 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV009010.D
 Acq: 18 Dec 2018 12:33

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02564

Tgt Ion:180 Resp: 82920
 Ion Ratio Lower Upper
 180 100
 182 94.5 75.9 113.9
 184 29.7 23.8 35.6
 145 31.0 24.2 36.4

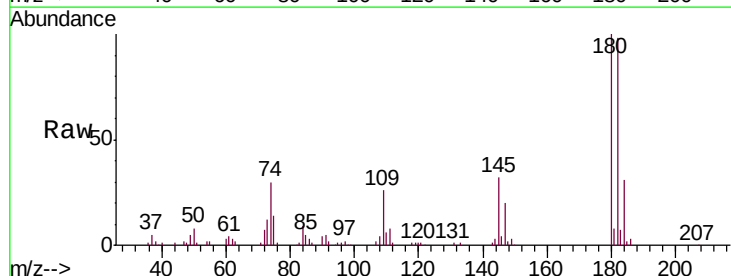


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

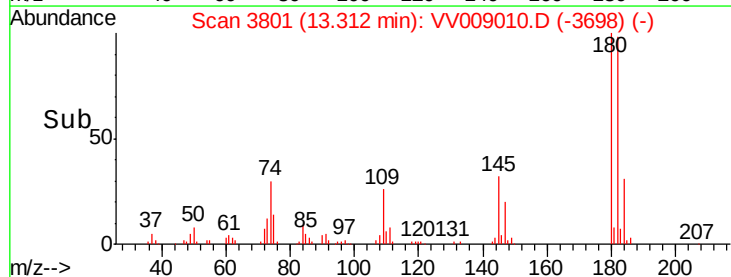
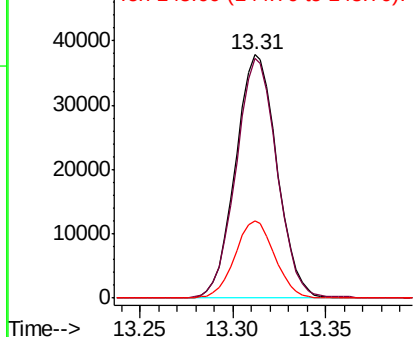


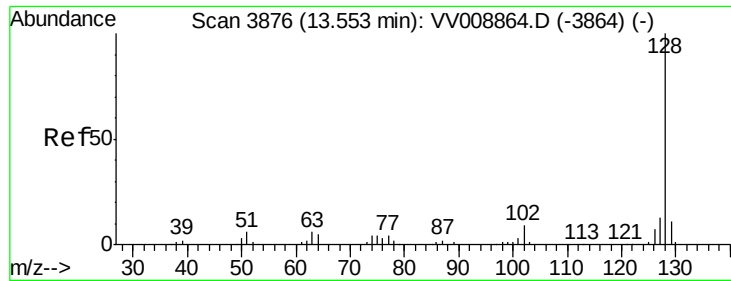
#68
 1,2,4-trichlorobenzene
 Concen: 20.536 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. -0.00 min
 Lab File: VV009010.D
 Acq: 18 Dec 2018 12:33

Tgt Ion:180 Resp: 58553
 Ion Ratio Lower Upper
 180 100
 182 97.4 77.4 116.0
 145 30.4 25.6 38.4



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 19.646 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. -0.00 min

Lab File: VV009010.D

Acq: 18 Dec 2018 12:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD02564

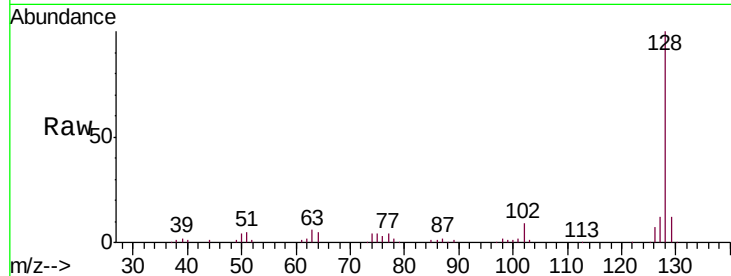
Tgt Ion:128 Resp: 96484

Ion Ratio Lower Upper

128 100

129 10.7 8.6 13.0

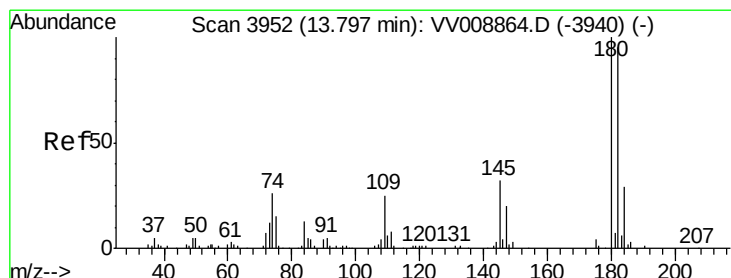
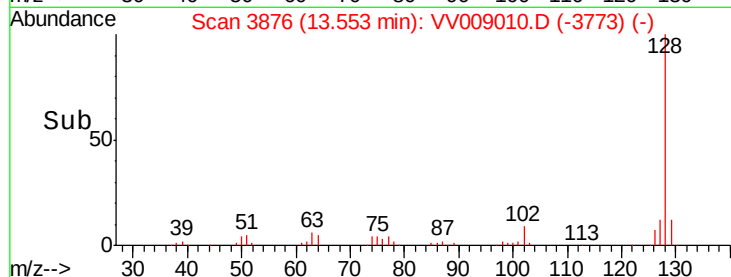
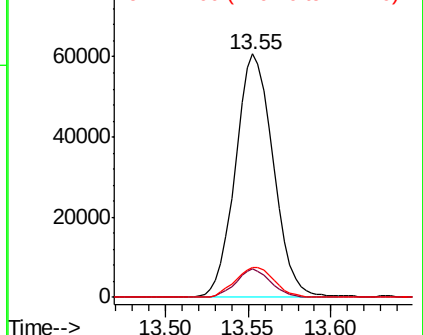
127 12.7 10.0 15.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 20.284 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VV009010.D

Acq: 18 Dec 2018 12:33

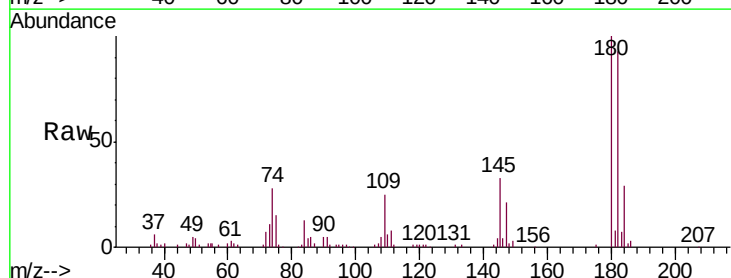
Tgt Ion:180 Resp: 53428

Ion Ratio Lower Upper

180 100

182 94.2 76.1 114.1

145 33.3 26.7 40.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

